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Lancaster Farming

VOL. 15 NO. 42 Lancaster Farming, Saturday, September 12, 1970 $2.00 Per Year

2 Local Families to Host IFYE Visitor From India

A 28-year-old man from India will visit two Lancaster County families for a month under the International Farm Youth Exchange (IFYE) program.

He is Emma Subong Ao, who operates a 30 acre farm in India on which he produces rice, vegetables, fruits, cattle, pigs and fowl.

He will stay with the John Henkel family, Strasburg RD1, from September 22 to October 5, and with the Larry R Weaver family, New Holland RD1, from October 5 to October 22.

Subong Ao will come here after a month in another Pennsylvania County and two months in Iowa. IFYE is a program of the Cooperative Extension Service of the state land-grant universities and the USDA coordinated with the assistance of the National 4-H Club Foundation.

A resident of Spring Villa, Mokokchung, Nagaland, India, Subong Ao speaks three languages including English He has a BA degree in English, Economics and History.

The young farmer lists his leisure interests as music, dancing, sports, fishing and hunting

His special interests while visiting the U S include farmers' organizations, crop cultivation and harvesting techniques, livestock production, foods and nutrition, community and rural development and culture and 4 H clubs, including leadership development, projects and activities, teaching methods, community service and recreation

He has three brothers and six sisters and is married

Marek's Vaccine Production OK'd

The Pennsylvania Department of Agriculture has granted permission to two State College scientists, Dr Robert F Gentry and Dr Maximillian O Braune, to produce a vaccine for experimental use in treating Marek's disease of poultry.

Marek's disease is a highly infectious disease, similar to lymphoid leukosis, which can cause severe losses in poultry flocks

The vaccine is to be used in experimental work to develop an immunizing agent against the disease Distribution is restricted to Pennsylvania and may be used only by qualified persons, according to the permit issued by the Agriculture Department

Solanco Fair Schedule

Wednesday, September 16
12 Noon — Judging Dairy Cattle and various other judging
7 30 p m — Formal opening of the Fair
8 p m — Talent Contest and Crowning of the Queen

Thursday, September 17
10 a m — County-Wide Tractor Driving Contest, 4-H, FFA and Open Class
1 p m — Judging Swine
2 p m — Judging Baby Beef
8 p m — Tug of-War

Friday, September 18
10 a m — Baby Parade
2 p m — Fat Hog and Baby Beef Sale
6 30 p m — Parade
8 30 p m — Rural Youth Awards

State Hampshire Sheep Meeting at Local Farm

The Pennsylvania Hampshire Sheep Association field day and annual meeting is being held at the Clyde Brubaker farm near Lancaster today (Saturday)

Members will inspect the Brubaker flock and the flock of Robert Buch, Lancaster

A lunch will be served, there will be a judging class and a meeting will be held in the afternoon for election of directors

Solanco Begins Co. Fair Season

The 1970 Lancaster County Fair season opens next week with Solanco (Southern Lancaster County) Community Fair's 21st Annual Exhibition starting Wednesday, September 16

The usual full schedule of judging events will highlight the Solanco Fair with classes for everything from livestock to domestic and fine arts A schedule of events at the Quarryville Memorial Park may be found elsewhere in this issue

The West Lampeter Community Fair and the Ephrata Fair share the week of September 23 with both events drawing farmers and their city relatives to the shows and exhibits

Lampeter Fair as usual will be the convening place for the scores of FFA youths representing the nine Lancaster County Vo-Ag departments in livestock judging contests, rope pulls and horse shoe pitching on Thursday, September 24 The All-Western Horse Show takes over on Friday and livestock and produce judging will be conducted throughout the week.

Ephrata Fair features the County FFA Tractor Driving contest as well as the judging of fruits, vegetables, and livestock

New Holland Farmer's Fair follows with events to run from September 30 to October 3 and the Manheim Community Farm Show October 7 to 9 Both of these fairs will also feature three days of livestock judging, canning displays, baked goods and arts and crafts.

Schedules of events at each local fair will appear in Lancaster Farming as they approach.

Type 41 Tobacco Referendum Set

Every three years, ASCS is required to conduct a marketing quota referendum on Type 41 (cigar-filler) tobacco

A referendum will be held early in 1971 to determine if growers want marketing quotas for the 1971, 1972 and 1973 crops of Type 41 tobacco,

(Type 41 accounts for the great majority, possibly around 90 per cent, of tobacco grown in Southeastern Pennsylvania)

Allotments must be established for each farm prior to the referendum, based on the acreage grown in the past five years

Cards are being mailed to all known tobacco farmers asking them to report to the ASCS office by November 15 the acreage of tobacco grown in 1968, 1969 and 1970 If the card is not returned by November 15, the allotment will be computed on the basis of acreages estimated by County or Community ASC Committeemen

To receive full credit for the acreage grown, farmers are urged to complete and return the cards as soon as they receive them Anyone who grew tobacco, but does not receive a card by September 25, should contact the County ASCS Office

Pa. Florists Meeting Set

A statewide florists meeting will be held at Pocono Manor September 21 and 22

Bedding, plant production, pot plants cut flowers, merchandising holiday plants and grading of cut flowers will be among the featured talks

Growers from Pennsylvania, New Jersey, Connecticut, Wisconsin, and Colorado will take part in the discussions

Two Lancaster County 4-H Teams Earn Travel

Two of Lancaster County's 4-H Teams earned the privilege of representing Pennsylvania in several inter-state contests

The inter-state travel was earned at the recent state-wide 4-H Judging Contest at Penn State University

The 4-H Livestock Judging Team won the state contest for the third consecutive year and will represent Pennsylvania in four inter state judging contests: Richmond Virginia, September 26, Pennsylvania Exposition at Harrisburg, November 12, Eastern National at Timonium, Maryland November 14, and the National Contest at Chicago, November 27

The 4-H Livestock Conservation Demonstration Team won a blue ribbon and have been authorized to compete in the national contest at Omaha, Nebraska on September 30

These two 4 H Club girls are: Cindy Hess, Strasburg RD1, and Nancy Yungingei, Marietta RD1.

Members of the winning livestock judging team are Burnell Buchen, Manheim RD3, Gary Dean, Strasburg RD1, Ed Donough, Manheim RD1 and Clark Stauffer Ephrata RD1.

West German Ag Minister Quizzes Some Local Farmers About Farming

The West German minister of agriculture, the German counterpart of the U S cabinet-level Secretary of Agriculture, spent a day in Lancaster County touring farms this week

Minister J Ertl and some officials with him wanted to discuss farming with local farmers

The delegation visited the Amos Lapp farm at Kinzer RD1, where the tobacco harvest had just been completed The farm operation also includes dairying and corn The minister was reported interested in the corn blight and how it is affecting the crop Lapp's corn has a little blight but is reported in excellent condition

The group then went to the Melvin Stoltzfus farm at Ronks RD1 to view the dairying operation including a milking system The farm has a loafing shed system for the cattle Stoltzfus recently was voted chairman of the Farm and Home Foundation

The group then went to the large Turkey Hill Dairy operation at Conestoga which has more than 400 dairy cows The minister was reported impressed that only three men could handle the milking of such a large herd.

During the visit of the Farm and Home Center, Ertl was surprised that such a nice building could be built without state or federal aid

Jay Irwin, associate county agent, who conducted the tour, said the minister seemed quite interested in discussing in detail the various phases of farming with the farmers involved The minister also discussed farming in Germany.

Like farmers in the U S , German farmers have a critical labor problem because of the competition for labor from industry, the minister related

Irwin also said the minister appeared impressed by the conscientious attitude and knowledge of farming displayed by the local farmers

The minister also asked numerous questions about how local farm products are marketed

With Ertl were Jost R Wilke, Forestry Secretary at the German Embassy and Edwin C Hadlock, administrative assistant of the National Grange German TV crews filmed the visit

The delegation arrived early Wednesday from Washington and returned late that evening after a full day of visiting here Although the minister expressed interest in visiting the county again, it's not on his immediate agenda He was slated to return to Bonn later this week

16 States Enter All - American

Outstanding dairy animals from 16 states will be among the 1,541 entries at the Pennsylvania All-American Dairy Show to be held at the Farm Show complex September 21-25

Pennsylvania leads with 651 entries Other states entering animals are Connecticut Delaware Indiana, Maryland, Massachusetts, Michigan New Jersey, New York, North Carolina Ohio Rhode Island, Utah, Virginia, West Virginia and Wisconsin

Breeds and entries are Ayrshire, 241 animals, Brown Swiss, 174 Guernsey, 138 Holstein 640 Jersey, 239, and Milking Shorthorn, 109 They will be competing for $54,119 in premiums.

Farm Calendar

Saturday, September 12
Farm Women's Society 1 All Foods Sale' at Nichol's Store Ephrata
National Plowing Contest, Greenville, Ohio
Pennsylvania Hampshire Sheep Association field day and annual meeting, Clyde Brubaker farm, Lancaster

(Continued on Page 5)

MARKET NEWS REPORT

At Lancaster Yards

Auction Only

September 9, 1970

CATTLE 1083 — Compared to Tuesday, Slaughter Steers uneven, Choice and Prime fully steady; Standard and Good weak to 25 lower; Cows 50-1.00 lower; Bulls weak to 50 lower

SLAUGHTER STEERS — High-Choice and Prime 1100-1300 lbs 31 50-32 10; Choice 1000-1350 lbs 30 10 31 85, few 900-1000 lbs 29 85-31 50; high-Good and low-Choice 29 00 29-75, few lots 30 60 30 75, Good 27.00-29 25, Standard and low-Good 25 50 27 10.

COWS — Utility and high-dressing Cutter 21 25 23.00, few 23.00-23 85· Cutter 20 50-22 00, Canner and low-Cutter 19 50-20-50.

BULLS — Choice 28 25 29 25, few 29 50-30 00, Good 26 35-28-50; Utility and Commercial 26-50-29 25, couple 1960 2000 lbs 31 60-31 75, Cutter and low-Utility 24 50 26 00

CALVES 193 — Vealers 1 00-2 00 higher, with Good and Choice 3 00 5 00 higher

VEALERS — Choice 50 00-54 00, seven 54 50 56 50, Good 47.00-51 00, Standard 42.00-48-50; Utility 34 00-42 50, Cull 90-120 lbs 30 00-33 00, 65-85 lbs 26.00-30 00.

HOGS 298 — Barrows and Gilts fully steady

BARROWS AND GILTS — US 1 205-240 lbs 22.00-22 50 US 1-2 215-235 lbs 21 60-21.75, US 2-3 200-265 lbs 21 00-21.50

SHEEP 110 — Spring Lambs and Slaughter Ewes steady.

SPRING LAMBS — Good 65-90 lbs 24 50 27.00, Utility 45-75 lbs 18 00-22 50.

SLAUGHTER EWES — One lot Utility 5 00

Chicago Cattle

Weekly Review

CATTLE — Compared last weeks close slaughter steers and heifers steady to 25 higher Cows steady to strong Bulls steady

Receipts 75 percent slaughter steers, 21 percent heifers, the balance mainly cows Overall finish of slaughter steers slightly more attractive than last week with 16 percent Prime and 74 percent Choice This compares with 14 percent Prime and 72 percent Choice last week, and 19 percent Prime and 73 percent Choice last year Average cost of slaughter steers estimated at 30 75, compared with 30 47 last week and 29 90 last year Average weight of slaughter steers expected to be about 1160 lbs compared with last weeks 1149 lbs which was the lightest since last October, and 1195 lbs last year. Average cost of slaughter heifers, estimated at 28 25, compares with last weeks 27 87. The lowest since January

SLAUGHTER STEERS — Prime 1200 1375 lbs Yield Grade 3 and 4 32 25-32 75, load

(Continued on Page 3)

Weekly Review

September 10, 1970

CATTLE 3100—Compared to last weeks close, Slaughter Steers uneven, Choice and Prime 25-50 higher, Standard and Good steady to 25 lower; Cows 50-1.00 lower. Bulls weak to 50 lower; Supply included 55 percent Slaughter Steers, 20 percent Cows and Bulls, with the balance mainly Feeder Steers.

SLAUGHTER STEERS—High-Choice and Prime 1100-1350 lbs 31 50-32 10; Choice 1000-1350 lbs 30 00 31 85, few 900-1000 lbs. 29 85-31 50, high-Good and low-Choice 29 00-29 75; few lots 30 60 30.75, Good 27 00-29 25; Standard and low-Good 25 50-27 50

COWS — Utility and high-dressing Cutter 21 25-23 00; few 23 00-23 85, Cutter 20 50-22 00; Canner and low-Cutter 19 50-20 50

BULLS — Choice 28 25-29 50, few 29 50-30 00, Good 26.35-28 50; Utility and Commercial 26 50-29 75, few head 1960-2675 lbs 31 60-32 50, Cutter and low-Utility 850-1050 lbs 24 50-26 00.

CALVES 400 — Vealers mostly steady with last week's close, Tuesday's 2 00-5 00 decline recovered on Wednesday

VEALERS — Closing Sales Choice 50 00-54 00, seven head 54 50-56 50, Good 47.00-51.00; Standard 42 00-48 50, Utility 34 00-42 50; Cull 90-120 lbs 30.00-33.00, 65-85 lbs 26 00-30.00.

HOGS 110 — Barrows and Gilts generally steady; Sows scarce

CLOSING SALES, BARROWS AND GILTS—US 1 205-240 lbs. 22 00-22 50; US 1-2 215-235 lbs. 21.60-21 75, US 2-3 200-265 lbs. 21 00-21 50

SHEEP 250 — Spring Lambs 1 00 lower Ewes steady

SPRING LAMBS—Choice 70-90 lbs 27 00-28 50, few 29 00; Good 65-90 lbs 24 50-27.00, Utility 45-80 lbs 18 00-24 00

SLAUGHTER EWES—Utility and Good 4 50 8 00

Vintage Auction

September 8, 1970

CATTLE 1059 — Compared to last Tuesday, Slaughter Steers uneven, Choice and Prime over 1125 lbs. strong to 25 higher, Choice and Prime under 1125 lbs. about steady, Standard and Good steady to 25 lower; Cows 50 1 00 lower; Bulls steady to 50 lower.

SLAUGHTER STEERS—High-Choice and Prime 1050-1325 lbs. 31 35-31.85, few head 32 00-32 50, Choice 1100-1350 lbs 30 25-31 85, 900-1100 lbs 29 25-31 25, part load 1500-1760 lbs 28 50-30 85, high-Good and low Choice 28 85-30 50; Good 27 00 29 60; Standard and low-Good 25 50-27 50.

COWS—Utility and high-dressing Cutter 21 00 23 00, few 23 00-23 75; Cutter 20 00-22 25; Canner and low-Cutter 17 50-19 75

BULLS — Choice 28.75-29 75 few 30 00-30 75, Good 26 50-28 75; Utility and Commercial 27 00-29 50, few 29 75-30 35, Utility 900-1050 lbs. 26 00-27 00

CALVES 710—Vealers steady to 1 00 lower, around 25 percent of supply 90-120 lbs calves returned to farm.

VEALERS — Choice 47 50-50 50, few 51 00-52.50, Good 44 00-48.00; Standard 39 00-44 00; Utility 34 00-40.00; Cull 90-120 lbs 30.00-32.00, 65-85 lbs, 26 50-30 00

CALVES RETURNED TO FARM—Bulk 100-120 lbs 37.00-42 00, 85-100 lbs. 31 00-39.00 several 90-110 lbs Holstein Heifers 41 00-49.00.

HOGS 432 — Barrows and Gilts weak to 25 lower, Sows scarce.

BARROWS AND GILTS—US 1 200-235 lbs 22.25-22.60; US 1-2 200-240 lbs 21 60-22.25, US 2-3 195-245 lbs 21 25 21 60, One lot US 3-4 255 lbs 20 00, US 2 185-195 lbs 20 00-20 25.

SHEEP 26—No report.

Local Grain Prices

These prices are made up of the average prices quoted by six participating local feed and grain concerns. It should be noted, however, that not every dealer handles each commodity All prices are per bushel, except for ear corn which is per ton.

These prices are made up of the average local grain prices quoted Thursday, September 10, 1970, are as follows:

	Bid	Offered
Ear Corn	$42.00	$47 00
Shelled Corn	1 59	1 78
Oats	80	92
Barley	1 00	1 16
Wheat	1 48	1 67

Bid is the price the dealer will buy from the farmer delivered to the mill. Offered is the price the dealer will sell for at his mill.

New Holland Auction

September 10, 1970

CATTLE 1162 — Compared to last Thursday, Slaughter Steers uneven, Choice and Prime over 1100 lbs. strong to 25 higher, under 1100 lbs. steady, Standard and Good steady to 25 lower, Cows fully steady, instances 50 higher on Canner and Cutter; Bulls 50-1 00 lower

SLAUGHTER STEERS — Few head high-Choice and Prime 1050-1435 lbs 31 60-32 25, four head 32 35-32 60 Choice 1050-1300 lbs 30 10-31.25, 900-1050 lbs 29.35-30 60, high-Good and low-Choice 28 35-30 10, Good 27 00 29 00; Standard and low-Good 25.00-27 00.

SLAUGHTER HEIFERS — Choice 780-925 lbs. 28 75-29 00; Good 750-935 lbs 25 00-26 00.

COWS — Utility and high-dressing Cutter 21 00-22 75, few 23 00-23 75; Cutter 20 00-22.25; Canner and low-Cutter 18 50-20 50.

BULLS — Choice 28 25-29 75, couple 32 00-33 10, Good 26.35-28 50, Utility and Commercial 26 00-29 00, few 29 00-29 50; Cutter and low-Utility 24 35-26 00.

FEEDER STEERS — Good 825-1000 lbs. 26.50-27.25.

CALVES 519—Vealers strong to 2.00 higher; large share of the 90-120 lbs. Calves returned to farm.

VEALERS — Choice 49.00-51 00, few 52.00-54.00; Good 45 00-49.50; Standard 39.00-46.00; Utility 34.00-41.00; Cull 90-120 lbs 29 00-33.00, 65-85 lbs. 21.00-29.00.

CALVES RETURNED TO FARM — Bulk 90-120 lbs. 32.00-40.00; few 40.00-44.00.

SHEEP 45 — Spring Lambs and Slaughter Ewes mostly steady.

SPRING LAMBS — Good 90-100 lbs 26 00; Utility 70-90 lbs. 20 00-24.00.

SLAUGHTER EWES — Utility 8 50.

HORSES
Sept. 7, 1970

Receipts of 258 sold steady. Riding horses 80-280; Driving Horses 90-270, Pony Mares 10-30; Geldings 10-20; Killers 4-6.

COWS

Receipts of 79 cows and 18 heifers sold stronger. Fresh Holstein 435-680; Guernseys 245-365; Other breeds 275-375; Heifers 155-230.

HOGS
Sept. 7, 1970

Hog receipts totaled 1748 at Mondays sale. Retail 21.75-23.00; Heavy-weights 19-21.25; Wholesale 2,3,4s 21.25-21.75; Sows 13-17.

CALVES

Calf receipts of 118 sold as follows: Choice and prime 42-49.50; Good and Low Choice 36-41.50; Standard 31-35.50; Common 22-30.50.

FUTURES TRADING

(Closing bids as of Thursday, September 10, 1970)

	Chicago Cattle	Chicago Hogs	New York Maine Potatoes	Chicago Fresh Eggs
September				43.15
October	29.15	19.65		37.80
November			2.66	38.75
December	28.90	19.50		37.35
January '71				35.55
February	29.47	20.45		
March			3.00	
April	30.12	21.75	3.23	
May			3.84	
June	30.47	23.65		
July		23.75		
August	30.07	23.50		
October	29.37			

Trend — Cattle are unchanged to stronger, Hogs mixed, Potatoes are weaker, and Eggs are weaker.

a-asked b-bid n-nominal

Markets provided by Commodity Dept., Reynolds & Company

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BULLS, STEERS, BUTCHER COWS, HOGS, LAMBS AND VEAL CALVES SOLD ON COMMISSION
SALE EVERY TUESDAY 12 NOON
FAT HOGS AND FEEDER PIG SALE EVERY SATURDAY AT 9:00 A.M.
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DAIRY SALE — WEDNESDAY at 12:30 P.M.
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Weekly Poultry Report

Eastern Pennsylvania And New Jersey

Prices ½-1c lower on light type hens Demand light and unaggressive as processors often having difficulty clearing dress product as most canners presently involved with vegetable processing Offerings adequate for needs as occasional plants reduces slaughter schedule Offerings of heavy hens fully adequate for current light needs Prices paid at farm Light Type Hens 4-6 ¼ mostly 6 6 ¼ in Pennsylvania, mostly 5-5 ½ in New Jersey. Heavy Type Hens Tfewr.

Delmarva

Ready-to-cook movement continues very good Supplies short of full call as shortages of labor at most plants reducing kill Less-than-trucklot prices continue to advance on both Plant and U.S Grade A Advance interest slow to develop as a generally wait and see situation prevails as traders await further market developments Live supplies ample with weights continuing to increase at most plants Undertone firm

Pool trucklot prices for Thursday arrival in the New York area

U S Grade A 26½-29 Mostly 27-28

Plant Grade 25½ 28 Mostly 26-26½

Special packs including 1¾-2, 3½ # sizes Tfewr.

Fogelsville

(Prices paid dock weights, cents per pound, except where noted)

HENS. Heavy Type 5½-21 12-16. PULLETS 26½-38 28-32, ROASTERS 18½-33½ 25 28, DUCKS 32-36. RABBITS 27 36; GUINEAS 52-60½ 60. PIGEONS (Per Pair) 82½-2 55 82½-1 20

TOTAL COOPS SOLD 396

Federally Inspected Livestock Slaughter

(For week ending Sept 10, 1970)

	Cattle	Hogs	Sheep
Week to date	382,000	970,000	126,000
Same period last week	478,000	1.209,000	144,000
Same period last year	495,000	1,231,000	166,000

Estimated daily livestock slaugnter under Federal Inspection.

Green Dragon

The Ephrata Green Dragon market reported receipts of 160 head of better quality dairy cattle Friday, September 4, well attended and prices stronger

Consignments included

Load of Canadian Cows — Fresh, $440 00 $485 00, Springers, $385 00 $540 00, one first calf heifer—$530 00

Load of Canadian Cows — Fresh, $440 00 to $510 00, Pure Bred Springers — $460 00 to $540 00

Load of New York State Cows — Springers & Fresh Cows — $460 00 to $510 00

Load of Top Fresh Cows — $485 00 to $570 00

Load of Penna Cows and first calf heifers—Big springing first calf heifers, $400 00 to $510 00. Springers and Fresh cows — $435 00 to $525 00.

Local Cows — Yellow cows $285 00 to $325 00, Bred heifers —$250 00 $365 00

Bulls — None offered.

September 4, 1970

11 loads hay, including few loads alfalfa, 30 00-31 50, one load Timothy 36 50, one load clover, 33 00, few loads mixed hay, 25 00-40 00, one load orchard grass, 34 00

Few loads straw, 40.00 40 50 per ton

Few loads ear corn, 42 00-46 00 per ton

HAY PRICES

For Southeastern and South Central Pennsylvania

(Hay Prices were not available at press time.)

Weekly UEP Egg Market

Prices to the Producer

Tuesday, September 8 and Thursday, September 10

Region	Large		Medium		Small	
Northwest	38	38	26	26	12	12
Central West	35	35	25	25	11	11
Southwest	35	35	24	24	12	12
Midwest	40½	40½	25	25	11	11
Southeast	41	41	26½	26½	14½	14½
Northeast	44	44	26½	26½	14½	14½
National Average	40½	40½	26	26	13	13

Weekly New York Egg Mkt.

From Tuesday, Sept 8 to Friday, Sept 11

	Mon.	Tues.	Wed	Thurs.	Fri.
WHITE					
Fcy Ex Large		53	53	53	53
Fcy Large		48	48	48	48
Fcy Mediums		33½	33½	33½	34½
Fcy Pullets		21	21	21	21
Fcy Peewees		15	15	15	15
BROWN					
Fcy Large		48	48	48	48
Fcy Mediums		Unquoted			
Fcy Pullets		Unquoted			
Fcy Peewees		Unquoted			
Standards		44	44	44	44
Checks		23	23	23	23

Tone — Large sizes adequate, mediums unevenly distributed but moving well.

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New York Eggs

Prices generally unchanged Receipts light Buying activity fairly good on large and heavy weights but highly irregular on mediums and smalls Large were closely cleared, mediums better supplywise due to feature activity on this side outside the immediate area Smalls adequate All browns in light supply this morning Carton orders slow through small distributors and fair to occasionally good through the major retail outlets

IPIE Vacation Drawing

All paid registrations received before October 20, 1970 for the International Poultry Industry Exposition (IPIE) to be held here October 26 29, will be included in a drawing Wednesday, October 28 to select the winner of an all expense paid vacation trip for two at the Hotel Americana in San Juan

The trip, which is being awarded to promote the show and encourage early registrations, includes a night at the New York City Americana dinner and a show at the Royal Box Supper Club then roundtrip via jetliner to San Juan, and four days and three nights at that city's beachfront Americana Hotel The winner will be able to take the trip at his convenience any time during the next 12 months

• Chicago

(Continued from Page 2)

1271 lbs on Tuesday 32 85, highest in eight weeks. High Choice and Prime 1150-1350 lbs 31 25-32 25, comparable grade 1050-1150 lbs 30 50 31 50, load High Choice and Prime 1467 lbs Yield Grade 4 and 5 30 75, Choice 1100-1350 lbs. Yield Grade 2 to 4 30 00-31 25.

Choice 950-1100 lbs 29 50-30 50, load Choice 1541 lbs 30 00, Mixed Good and Choice 950-1200 lbs 28 75 29 75, Good 26 50 28 75, Standard and Low Good 25 75 26 50

SLAUGHTER HEIFERS — High Choice and Prime 950-1100 lbs Yield Grade 3 and 4 29 25-29 50, load Prime 1050 lbs. Tuesday at 29 75 Choice 825-1000 lbs Yield Grade 2 to 4 27 75-29 25, mostly 28 00 29 00 On Wednesday Mixed Good and Choice 750 900 lbs 27 00 28 00, Good 25 50 27 00

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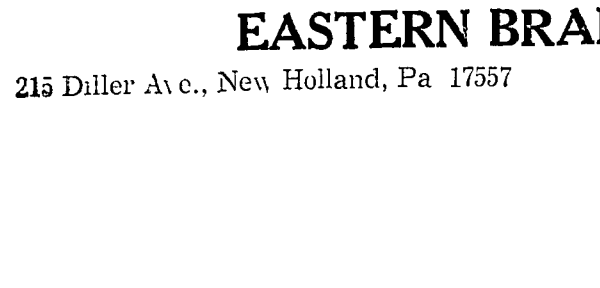

.. offers durability, economy, performance and practical labor saving features that increase management efficiency

The heart of the system is the Big Dutchman chain and trough feeder providing 96 inches of feeding space per cage There is full availability of all the feed to all the birds All feed is automatically recirculated and remixed, resulting in better feed consumption.

Extra feed capacity makes high density of birds per cage ow practical and manageable

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- High bird density per square foot of building.
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- Uniform distribution of heat, light and fresh air.
- Fully automated feeding and watering from day old to 20 weeks.
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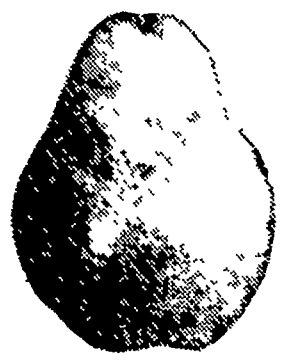
BARTLETT PEARS



Pick Your Own!!

- Large & juicy
- Full Trees
- Ideal for canning or eating fresh
- Prime condition

Choose From 5 Grades & Sizes

Daily 10 to 8 — Sat. 9 to 6 — Closed Sunday

Cherry Hill Orchards

Rt 324 New Danville Pike, 3 miles South of Lancaster
Phone 392 6622

On Finding Egg Bargains

Have you ever looked at the different sizes of eggs in the store and wondered which size was the best buy?

Here's how a U.S. Department of Agriculture expert selects the best bargains. He's Ashley R. Gulich, Chief of the Standardization Branch, Poultry Division of USDA's Consumer and Marketing Service

"When I shop for the family groceries, I follow this rule of thumb for buying eggs: If there is less than a 7-cent price spread per dozen eggs between one size and the next smaller size of the **same grade**, you will get more for your money by buying the larger size. Thus, Large eggs at 60 cents a dozen would be a better buy than Medium eggs at 54 cents.

"Conversely, when the price spread is **greater** than 7 cents, the smaller size is the more economical. For example, if U.S. Grade A Medium eggs are selling at 54 cents a dozen and U.S. Grade A Smalls at 46 cents, you would get more for your money buying the smaller size."

Mr. Gulich explains, "Some people don't realize that although eggs are sold by the dozen, you really buy them by weight, just as you do meat and other products.

"You see, there's a 3-ounce difference between each size. A dozen Large eggs must weigh at least 24 ounces. Mediums must weigh at least 21 ounces and Smalls, at least 18. A 7-cent price spread between sizes will give you an approximately equivalent price per pound for any size.

"When you shop, make it a habit to check the price difference between sizes in the same grade so you'll be able to spot the bargains when they're available," Gulich says.

A Lesson From Cereal

Robert B. Choate, a former nutrition consultant to President Nixon, started a big uror a few weeks back by attacking the nutritional value of most cereals

One sidelight of this furor, it turned out, was considerable favorable publicity for milk. It was contended in some quarters hat the only good nutritional aspect of most cereals is that they encourage consumption of milk

All this has been termed a million bucks worth of favorable publicity for the dairy indutsry without it costing a nickel

In large part this is true. But farmers shouldn't forget that the same publicity procedure which gives a million bucks one day may take it away the next The farm community shouldn't rely on such breaks to insure the success of its products

What IS needed is a greater awareness within the farming community of the relative nutritional strengths and weaknesses of its various products and large scale determined efforts to improve.

At the same time, the farm community must act to insure that its customers the consumer, is aware of the nutritional value of farm products

Egg, Swine Promotion

Programs such as the one sponsored recently in Pennsylvania by the poultry industry is only one of many possible ways the good word for agriculture can be spread In that one week alone involving the World's Omelet King, we are informed, Pennsylvania eggs received much favorable public exposure not only locally but in many of the leading national urban newspapers, the publications which serve the farmer's customers

The per capita rate of egg consumption in the nation for many years has been on the downtrend Such efforts as that shown here involving the Omelet King have the potential for reversing that trend and insuring a sound future for the egg industry

The Pennsylvania swine industry also has begun a unique — for farmers — campaign to increase pork consumption This program includes considerable promotion of pork in the areas where it counts — the state's urban centers.

Actually, the timing of both the egg and pork promotion efforts is significant Both farm products may be entering a period of overproduction. Increasing sales through promotion — at the same time attempting to cut back on expansion — is a logical way to meet the problem positively.

On Meeting The Need

But the farm community needs to avoid the "crisis" approach to problems Promotion should not be a lost art until the industry is in trouble Promotion of farm products should be an ongoing thing

This is a time of fast change. Consumers have many options The farmer has to compete for the consumer's attention.

The individual farmer can do something to help farm products He can produce quality products which will keep the consumer coming back for more. He can — and most local farmers do — keep his property attractive so as to present a favorable impression to the many potential consumers who travel in this area

Farmers can and do get even more done toward promoting their products and improving their own income by banding together into various organizations and groups

But in the long run, something that many farmers may be overlooking could be the decisive factor in determining the future of particular farm products

Know Your Product

We're referring to the farmer's know-how. How much does the farmer know about his products? What nutrients are in them? Why? Should the make-up be different? If so, how?

Farmers already know that they have considerable control over what's in their final product They know that the amount and composition of fertilizer affects the quantity and quality of a crop

They know that the type and quality of feed influences how much and how fast the beef animal, hog or chicken grows, or how the milk tastes or the make-up of the elements in the milk

Farmers need to know much more about these things They need to know not only about the things which go into the crop or the animal and why and how they produce the best results; they also need to know what's in their final product, which they sell to the consumer, and how that product can be improved.

To Insure The Future

This is important not just to meet present competition, but future competition. The product which stands still, the product which is just as good today as it was yesterday is the product that's in danger in the marketplace tomorrow. The future is with those products which are continually improved

Only when a broad segment of the farm community is well-informed about its product and has the desire to improve is the individual farmer and farm community secure for the future

Without this continual upgrading, the product which comes under fire next may be one more dear to the farmer's heart

Meanwhile, forget the cereal and pass the milk.

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NOW IS THE TIME...

By Jay Irwin
Associate County Agent

To Check Pastures For Wild Cherry Trees

Many livestock pastures have a few wild cherry trees growing along their fences These trees may become deadly livestock killers The leaves of damaged branches may become sources of deadly cyanide poison. When the leaves wither, a normally harmless substance in them changes to deadly hydrocyamic acid and sugar Cattle and sheep eat the sweet withering leaves with relish It takes only a few leaves in the proper stage to kill a cow or sheep. The only way to eliminate the danger of wild cherry poisoning is to eliminate the trees

To Be Alert To Silo Fillers' Disease

This year, Corn Leaf Blight may increase the danger of silo fillers disease Corn plants dying of this disease may contain excessive amounts of nitrate and nitrites, so the basic material necessary for the production of silo gas may be present in excessive amounts. Inhaling these fumes causes irritation of the nose, throat and lungs and an asthma-like reaction. To protect yourself and your cattle, run the blower for 10 minutes before going into a partly filled silo Also, be alert for irritating odors and watch for yellowish brown fumes They are signs of nitrogen-dioxide gas.

To Use Slow Moving Vehicle Emblems

Silo filling time and fall grain planting brings a lot of farm equipment on our highways The slow-moving vehicle emblem should be used on equipment to warn motorists that the vehicle displaying the sign can move no faster than 25 miles per hour. This emblem is triangular and shows up a bright flourescent orange in daylight and a reflective red at night. You can see it from at least 500 feet away

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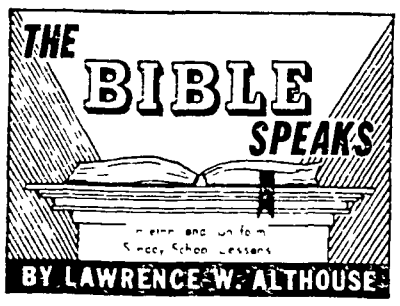

RECOGNIZING THE POTTAGE

Lesson for September 13, 1970

Background Scripture: Genesis 25 19 through 26 9, 36 1 8, Hebrews 12 15-17. Devotional Reading 1 John 2 12 17

Jerry Kramer, former football star of the Green Bay Packers, tells of an occasion on which Vince Lombardi, who coached the Packers at the time, announced to the team: "There are three things that are important to every man in this room his religion, his family, and the Green Bay Packers." Kramer goes on to comment: "Vince means what he says, but sometimes I think he gets the order confused"

Rev. Althouse

(INSTANT REPLAY by Jerry Kramer, New American Library, 1968).

A sense of values

That is a common failing with many of us. We know the important things in life, but we get the order confused. It is the putting of second things first and letting first things take something less than first place that make us victims of secularization.

This was also Esau's problem. His sense of values was distorted. As the first-born son the birthright was his. It entailed certain rights and privileges not available to the other children. It included a double portion of the inheritance and made Esau both head of the family (next to Isaac) and heir to the covenant of Abraham and Isaac. It could be taken away or sold, although few men would have been willing to give up so precious a possession.

Esau, however, was a man of appetites. If he was hungry, he wanted food NOW and it would be at that moment the most important thing in his life. The satisfaction of the momentary need seemed to rule him completely. He would give up anything to satisfy it. The sight and smell of savoury food made him forget or ignore his valuable possession. Thus he sold his birthright for "a mess of pottage." He gave up a priceless gift for something of fleeting value.

Engrossed with "things"

So it is with many of us today. We become so engrossed with things of lesser value and allow to slip from us the values that are greatest of all. We are often driven by hungers and appetites that are allowed free rein over us. We become obsessed with bright, shiny things that glitter and sparkle and distract us.

On April 14, 1912, fifteen hundred people were drowned when the supposedly unsinkable Titanic struck an iceberg in the North Atlantic and went to the bottom. Yet, the tragedy need not have taken place. Five times in two hours the ship had received danger signals concerning icebergs and ignored them. The last attempt was made by the radio operator of a nearby vessel, the Californian. The reply from the radio shack of the Titanic was "Shut up, I am busy, I am working the Cape Race." Within a few short minutes after that message the Titanic collided with the iceberg and four hours later fifteen hundred people were drowned

What had happened was that the radio operator in the Titanic was too occupied with the highly profitable business of sending and receiving telegrams to worry about iceberg warnings. The people on board the luxury liner were interested in the progress of the Cape Sailing Regatta, not icebergs. So, because they were too busy with the wrong thing, there was a needless loss of life.

"Working a race"

So it may seem to the Esau's of today that there are tiresome warnings about this or that, interfering with our pleasures. To these warnings we too want to reply, "Shut up, I am busy; I am working a race." And what a race it is that we are working!

Perhaps we all need to heed the lines of that old spiritual:

Slow me down, Lord,
I'se goin' too fast;
I can't see my brother
when he's walkin' past;
I miss a lot of good things
day by day,
I don't know a blessing
when it comes my way.

That's what we need: to be able to recognize the real blessings from the "pottage" when they come our way.

(Based on outlines copyrighted by the Division of Christian Education, National Council of the Churches of Christ in the U S A Released by Community Press Service.)

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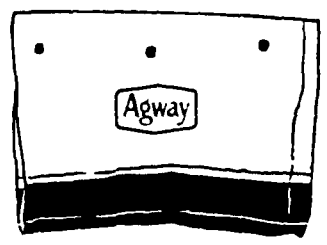

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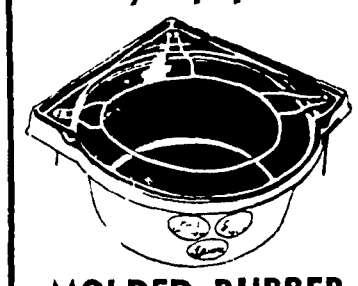

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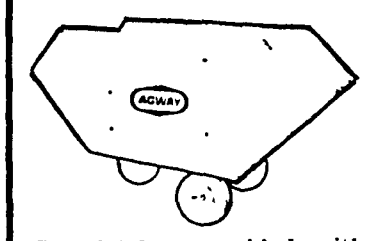

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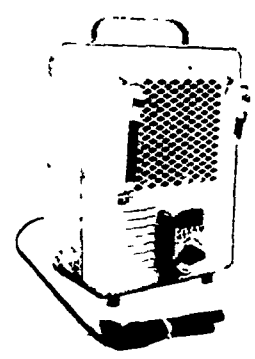

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Clifford Day
Garden Spot Vo-Ag Teacher

3 New Vo-Ag Teachers Named

Among the new teachers of vocational agriculture named in Lancaster County are Carl Graybill at Ephrata High School Clifford Day at Garden Spot High School, and Steve Leiser at Solanco Area High School

All are beginning their first year of teaching, Graybill and Leiser having graduated from Penn State University in June, and Day from Cornell University

Day is a native of Oaks Corners, New York Unmarried, he is now living in Blue Ball At Garden Spot, he is teaching the 10th, 11th, and 12th grade students in class and shop

Replacing J Richard Wood at Solanco Area High School is Steve Leiser a native of Watsontown, Northumberland County His teaching duties include 9th grade vocational agriculture, 9th grade earth science, and farm maintenance and repair

Duties for Graybill will include teaching 9th, 10th, and 11th grade agriculture, two electives, one on conservation and one on wildlife and forestry, 7th and 8th grade special education several periods each week, as well as being advisor to the FFA Married and the proud father of a seven month old son, Graybill is a native of Fredericksburg, Lebanon County

● Farm Calendar

(Continued from Page 1)

Sunday, September 13

12 30 p m —5th Annual Ephrata Adult Farmer Family Picnic, Reamstown Memorial Park

Monday, September 14

Four-State conference on "Agricultural Waste in an Urban Environment", Atlantic City, N J , Sept 14 17

Tuesday, September 15

7 45 a m —Farm Women Society 22, trip to Harrisburg

8 p m —Farm and Home Foundation board of directors, Farm and Home Center

Wednesday, September 16

8 p m —4-H skating party, Rocky Springs, Lancaster

Southern Lancaster County Community Fair Quarryville, September 16-18

Friday, September 18

1 p m —Corn and fertilization program by Carlton Seed Co. at Eugene Hoover Farm

Society of Farm Women 1 Meeting at the home of Mrs. George Zahn, Chester County

Saturday, September 19

District 4-H Horse & Pony Show, Ludwigs Corner Horse Show Association Grounds, Chester County

Pollution Issue Seen Hitting Large Feedlots

"Pollution legislation may limit the number of very large feedlots and give the well-managed medium-sized producer an advantage in the profit race," W. Hakes vice president sales, Badger Northland Inc., said recently at the 25th annual convention of the International Flying Farmers. The executive of the Kaukauna, Wis., Massey Ferguson subsidiary explained that "I strongly believe that the limiting factor in the growth of beef feeding operations or dairy herds will not be the ability to effectively, conveniently feed the animals the limiting factor will be on the other end, the ability to safely effectively process the waste.

Noting that manure from medium-sized herds usually can be immediately incorporated into the soil when it is put back onto the land and thus provide nutrients as well as improve the tilth of the soil, Hakes emphasized that the large producer has a real problem in this respect.

"I am sure," he said, "that many of you have seen the large hills that are the result of one year's accumulation of waste from a 50,000 to 100,000 head feedlot. This size operation does not have enough available land to enable the operator to return the manure to the soil. If government bodies insist, through legislation on disposal of this waste it can become a very expensive situation."

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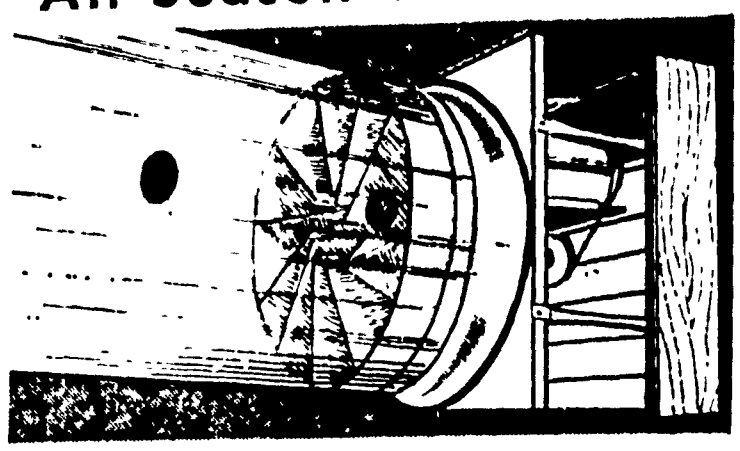

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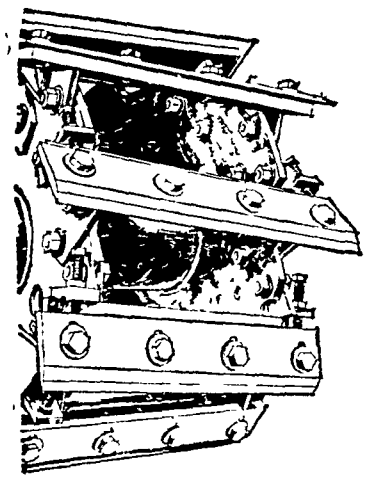
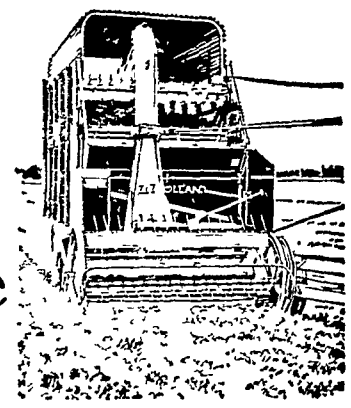


This big edge inside...



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Pa. Granger Named

Herald K Pentz, Rockton RD1, Clearfield County, has been named "Granger of the Year" for 1970 in Pennsylvania, and will be presented with an award during the 98th Pennsylvania State Grange convention, October 26 to 29 in Meadville, A Wayne Readinger, state master, announced recently.

Pentz, a farmer and employe of the Pennsylvania State Game Commission, holds a record of 36 years of continuous grange service He is the second winner of a contest cosponsored by the State Grange and the grange related Farmers and Traders Life Insurance Company of Syracuse, N Y

John York Charges USDA Policy Hinders School Milk Program

"Poor school children have now been added to the growing list of people in this country who have felt the blow of the 'no decision' policies of our United States Department of Agriculture", stated John C York, General Manager of Eastern Milk Producers recently in Syracuse, N Y.

Washington, D C sources just informed Eastern that the School Milk Program has already been authorized by the Congress of the United States but the USDA has not authorized operation of the program after September 1, 1970 Neither has the Department publicized any decision that it will not continue the program

Presumably, a decision will be made public by the USDA shortly. However, in the meantime, the School Milk Program is suffering what may prove to be irreparable damage, according to York In other words, many schools have opened and others will soon be starting without authorized funds to distribute milk under the program

The USDA does not lack the authority to give local schools permission to go ahead

York reminded, "The milk industry in this region of the country has recently been the recipient of this 'no decision' policy in its efforts to obtain proper pricing of Class II milk in the various Federal Milk Marketing Areas Now our nation's schools are being placed in that feeling of uncertainty and some are finding it necessary to curtail the distribution of the 'world's most perfect food' to their students"

Pottstown Angus Cited

Angus farms from five states led out the top Angus breeding cattle at the recently concluded West Virginia State Fair in Lewisburg Dr Gary Mimish, Virginia Polytechnic Institute, Blacksburg, made the official placings and selected the senior champion bull, Marshall Pride W 538, shown by Soleil Farms Pottstown, Pennsylvania, as the grand champion of the show

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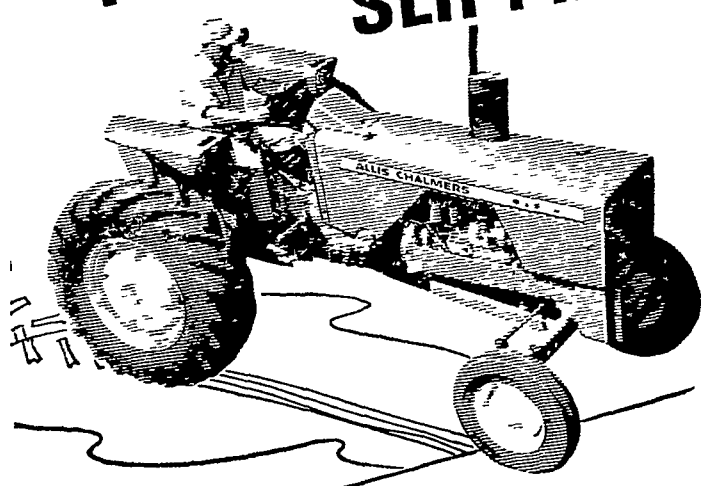

GOING through those wet spots . . . up those hills . . . bet you've been slippin' (and swearin') . . . and wishin' you had another 10 horsepower and another 100 pounds of weight on the rear wheels.

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Egg Men ! ! Daily Removal. One-third Weight. Little Odor. Better Product. Small Cost Hike

Automated Manure Disposal

By G. O. Bressler
Penn State University

Poultry manure handling and disposal, offensive odors, and flies have become problems of great magnitude in todays poultry industry

Increase in size of flocks and concentration of large numbers of chickens in limited areas have created these problems

When large poultry operations are located near residential areas, flock owners often have been forced to abandon their operations or relocate in less urbanized areas

Since 1963 research and development work at Penn State has been directed toward finding a solution to the various problems associated with poultry manure Because handling manure in a liquid or semi liquid form is widely used without providing satisfactory solution to the problems the experimental approach used was dehydration The objectives were (1) to remove as much moisture as possible from the poultry manure inside the poultry house to lessen the weight of material to be handled (2) to eliminate odors and flies and (3) to develop an automatic system of manure handling to eliminate manual labo

Three basic drying principles were applied experimentally (1) application of high velocity air to the accumulating manure (2) stirring the manure as it accumulated to aid in bringing the rapidly moving air to the moisture in the manure and (3) use of supplementary heat in the floor to drive off moisture

The drying system was incorporated into the sloping wire floor system developed at Penn State for leghorn layers and breeders housed at 0 5 to 0 6 square foot floo space per bird With this system droppings are spread thinly over the entire floor area underneath the wire floor and are exposed to rapid air movement which starts the drying process immediately This is in sharp contrast to systems in which wet watery droppings are concentrated in limited pit areas where drying is considerably more difficult

Three flocks of leghorns were used in two manure dehydration experiments The first experiment, beginning August 1 1967 involved a flock of 3 000 pullets and 246 cockerels 20 weeks old housed in a 30 feet by 100 feet windowless house on an A frame sloping wire floor at 0 57 square foot per bird The experiment ended on June 24, 1968.

In the second experiment beginning August 12, 1968 and continuing for 12 months, involved two 30 feet by 100 feet windowless houses The A-frame sloping wire floor system was used in one house and the V frame in the other Abou 3050 pullets and 250 cockerels 20 weeks old were placed in each house at about 0 57 square foot floor space per bird

Experiment I 1967-68

Drying Methods Used

Ventilation

Circulating air at high velocities over the accumulating manure was a third dimension added to what is considered a ro ma. poultry house ventilation system Most ventilation systems provide adequate air exchange for control of house temperature and to meet oxygen demand for the chickens and eliminate obnoxius odors

However, control of moisture has been lacking and this has increased the problem in all aspects of handling poultry manure

To determine the effect of high air velocities, four ¼ H P single phase motor driven fans with a 3,000 cfm capacity were spaced about 22 feet apart along a center line in each pit underneath the chickens on the sloping wire floo and hung about 15 inches above the manure All fans were pointed toward the manure unloading end of the house This provided air velocities averaging about 250 feet per minute over the pit area

The air exchange portion of the ventilation system consisted of one 48-inch exhaust fan (20,000 cfm free air delivery) located in the end wall at the manure unloading end of the 100 feet long house This fan, thermostatically controlled, was louvred and provided actual delivery rates varying from 15,000 cubic feet per minute to as low as 3 000 cfm

Air inlets, 10 inches in diameter were spaced about 12 feet apart in the ceiling along a center line over each pit The air was drawn in between rafters. In hot weather doors in the house were opened to provide additional air inlets

Stirring Manure

Manure stirring was accomplished by pulling a spike tooth harrow type device through the droppings Partially dried droppings were drawn into the high velocity air stream with specially hinged boards on the stirring device Cleaning was accomplished with the same mechanism Stirring was done from one to ten times over a 24 hour period by using a time clock controlled limit automatic reversing switches

Supplementary heat

Heat cable matts 18 inches wide (40 watts per square foot capacity) thermostatically controlled, were installed in the concrete floor along the center of the pit directly underneath the water troughs

Procedures and Results

Three drying methods were used singly and in various combinations in 39 experimental periods varying in length from one to 44 days Stirring alone was an aid in drying but did not result in significant drying

Stirring plus use of the fans circulating air underneath the sloping wire floor to give a velocity averaging 250 feet per minute, did an excellent job of drying

When supplemental heat was used in the concrete slab with a heat cable, manure could be dried under all circumstances

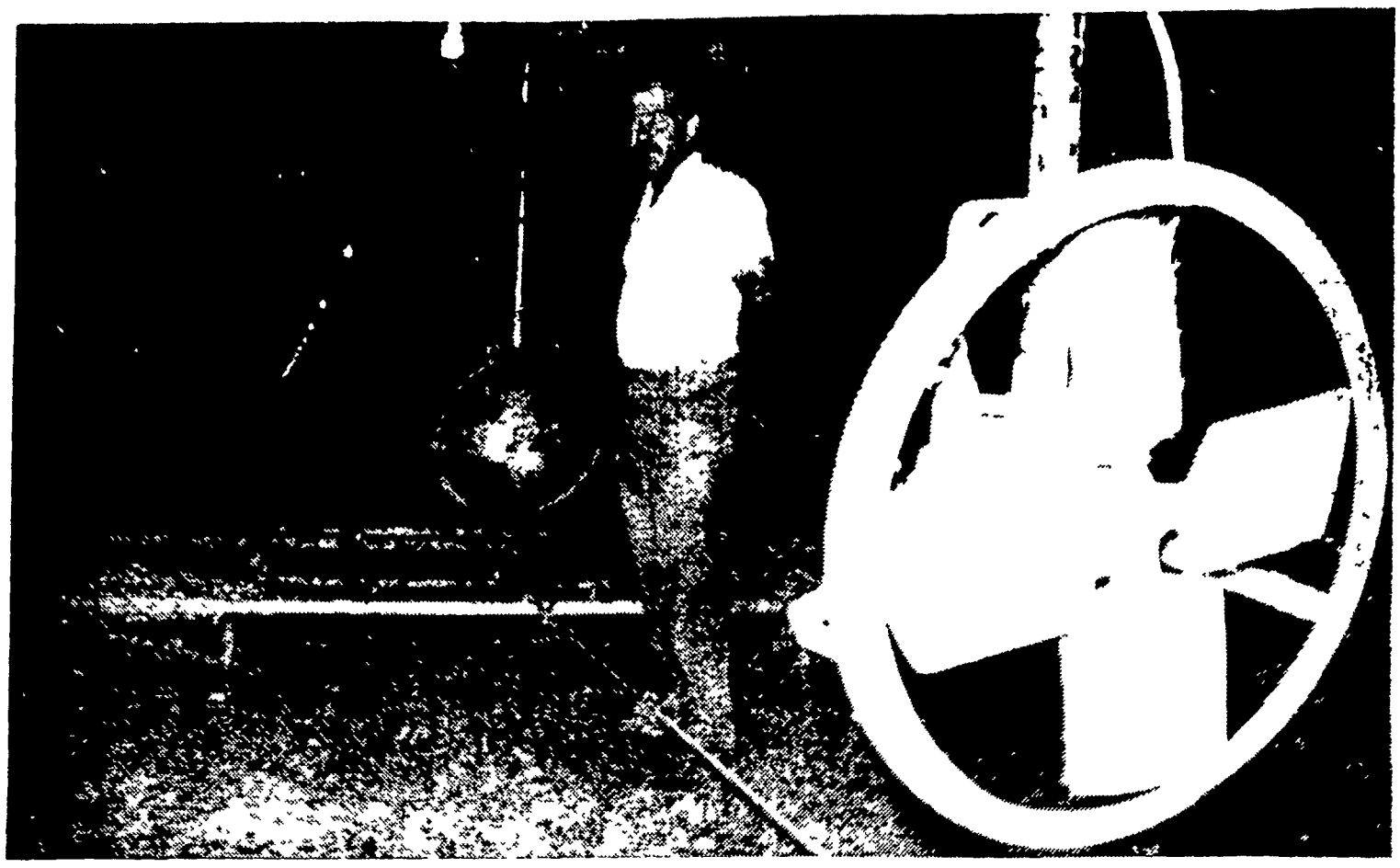
Stirring twice daily, plus operation of the circulating fans to provide air velocities of 250 feet per minute, resulted in drying the manure to 30 per cent moisture in the September 14 to 25 period In the front pit where the heat cable was used the manure was dried to 19 per cent In either case the manure remaining which had to be handled was reduced to approximately ⅓ the original weight

An electrical cost analysis of these two methods indicated substantially higher costs with the heat cable Electrical requirements were metered separately for fans and heat cable

The electrical requirements for drying the manure were considered as the net increase for ventilation in kilowatt consumption over normal ventilation for a similar size flock and for a similar period of time, as a result of the additional fans used for air circulation The cost of electricity consumed was figured at 1½ cents per kilowatt hour

With heat cable drying manure from an assumed 75 per cent

(Continued on Page 11)



Ed Bowser, farm manager at Cloisterdale, inspects new manure system Fans dry the manure as it drops from the 30,000 caged hens above: the rig on the floor pulls the manure to the front of the building and dumps it into a channel, from which it is carried by conveyor directly to the waiting truck. No shoveling, it's a completely automated system. Bowser's job largely is to make sure the equipment functions properly.

The 30 per cent dried manure leaves the Cloisterdale building and flows by conveyor directly onto a waiting truck. Only one of nine Cloisterdale buildings now use this system, but plans are already underway to convert the rest of the buildings to the drying system.

Cloisterdale Also Reduces Weight for Easy Disposal

Taking the Odor Out of Manure

By Glenn H. Herr
General Manager,
Cloisterdale Farms

Farm odors may be one of the toughest problems producers of livestock face in the next five years.

The fragrant odor of a newly mown field of hay is not the odor problem; but the putrid, offensive odors resulting from literally mountains of livestock wastes are the odors that raise the ire of our suburban dwellers. The odor complaint will affect both large and small producers

A complaint from one neighbor in respect to farm odors can be sufficient cause to close down a farming operation.

Such are the ground rules now being established and enforced by local, state, and federal boards of health.

The day when the farmer can say "I was here first" is gone Today it is up to the farmer to decide how he can live amicably with his neighbors.

Certainly, air and water pollution laws are becoming more stringent, and laws will be more rigorously enforced.

Now is the time for you as a producer of beef cattle, dairy, swine, or poultry to take inventory of your farm situation in respect to farm odors and determine how long you can keep your neighbors happy.

At Cloisterdale we have had a serious problem of controlling odors from our egg laying complex of about 270,000 layers Nine houses of 30,000 layers each, equipped with four rows of full-stair step cages suspended over deep pits to accumulate the poultry droppings, has caused us a horrendous problem

The theory that with a deep pit the manure will be self-disintegrating and the pits would never need cleaning has proven false.

After less than two full years of operation much of the manure had already begun to liquify and the addition of water to the pits didn't help the cause of odor control.

Each day 35 to 40 tons of raw waste from these nine houses were being added to the pits With little disintegration of the raw waste, one can visualize the scope of the problem.

Liquid waste odors are horrible when dormant, but when the liquid waste is moved or gets in motion, horrible isn't even a good description Putrid doesn't even fit

We could not continue with this system and live happily with our neighbors But liquid manure is what we had, so liquid was what had to be moved Our procedure

1. Water V troughs inside houses were replaced with cups to stem the overflow that was constantly adding to our pit volume.

2. Lagoons were dug first to take the pressure off the volume build-up within the houses. This we did, but there could be no constructing of enough lagoons (limited land area) to handle the whole job, and what was constructed soon filled and thus began the odor problems

3. Irrigation was installed to pump from the lagoons to a permanent field set aside for this purpose only Two problems were encountered·

a Constant clogging of nozzles

b Corrosion of the entire system within four months

And again, of course, odor problems expanded for the community

4. Sewerage treatment, incineration, and burying all were deemed too impractical and expensive.

5. We then moved to direct pumping and hauling in 1,400 gallon tank trailers from the house pits to our fields and those of our neighbors This had its problems also

From our experience we concluded that some dry or semi dry method had to be developed as our solution, as well as an industry solution.

Certainly, the problems of the poultry farmer are the same for hogs, steers, and dairy operations as well, and will increase in the future.

After a whirlwind tour of the country, visiting large poultry operations and agricultural experiment stations, we saw nothing that looked as promising as the drying method developed by Dr. Glenn Bressler and his co-workers at Penn State University

Plans for converting one of our 30,000 layer cage houses were drawn up in cooperation with Penn State, and an installation was made last summer.

What is the Penn State system? Development of this system began in 1963 at a time when liquid or semi liquid handling methods were being widely used, but without providing a satisfactory solution to the odor and handling problem

The objectives at Penn State were (1) to remove as much moisture as possible from the poultry manure inside the poultry house in order to lessen the weight and volume of material to be handled, (2) to eliminate odors and flies, and (3) to develop an automatic system of manure handling to eliminate manual labor.

Over the past seven years a system has been developed which meets these objectives

Manure is dried to about 30 per cent moisture which reduces the manure weight to about ⅓ the original amount produced This is accomplished by combining two simple drying techniques, stirring manure and blowing air at high velocity across the droppings

Stirring was done with a specially designed rake and cleaning gadget This gadget is drawn through the manure by a cable which is driven with a reciprocating power unit Stirring is time clock controlled and done about eight times daily

Air is blown across the manure at velocities averaging about 500 feet per minute on a continuous basis Fans are suspended about 15 inches above the manure.

The combination of stirring and blowing air across the droppings to speed drying not only reduces weight and volume of manure but also practically eliminates odors

The basic reason for this accomplishment is that the anaerobic bacteria, which live in the absence of oxygen and cause the offensive odors in manure, cannot live in an atmosphere which

(Continued on Page 12)

This article by Glenn H Herr, general manager of Cloisterdale Farms originally appeared in the Farm Service Bulletin of Miller and Bushong Inc Rohrerstown

In it, Herr describes the new manure system already installed in one of nine 30,000 bird units and planned for the remaining eight houses

Herr also spells out why Cloisterdale went to considerable expense and trouble to obtain the new system and why he thinks other egg producers and farmers must consider such a system for the future.

In an accompanying article, Dr Glenn O Bressler, the developer of the new manure handling concept being pioneered at Cloisterdale, gives a report on the research which proved the new system

The basic information in these articles has been widely discussed nationally in the egg industry Herr and Bressler were both speakers on the new manure system at the Pennsylvania Poultry Federation meeting at Hershey this summer

Lancaster Farming presents these two articles from two different sources to give a comprehensive look at what many persons close to the egg industry think may be a new development of great significance in the next several years.

Herr believes the development may be important for all farmers — not just egg producers — who have animal waste problems, particularly where the farm is near urban areas or persons who might object to farm odors

The photos showing the manure disposal system at Cloisterdale and the farm's automated egg gathering system were taken by Lancaster Farming

A Cloisterdale employe watches the conveyor for defective eggs. Except for defective eggs which are removed, eggs at Cloisterdale move directly from the hen to the consumer without being touched by human hands. Herr says the eggs frequently are on the retailer's shelves within 24 hours of being laid.

Eggs flow constantly from the cage operation at Cloisterdale. The eggs roll out of the cages onto conveyors, the conveyors come together and bring the eggs on one conveyor into the packing area. This is the point just before sorting and packaging.

Greenhouse Air Pollution Study Scheduled in 1971

A study of the economic effects of air pollution on the greenhouse industry in Southeastern Pennsylvania will be conducted during 1971

The research study will attempt to identify air pollution injury to greenhouse crops resulting in both quality and quantity losses of output and will relate this air pollution damage to dollar losses in sales

James Carroll, a graduate student in agricultural economics at Penn State University working through The Center for Air Environment Studies, will be conducting the study for his master's research

Carroll served as technical assistant in 1969 on a Statewide Survey of Air Pollution Damage to Vegetation which found air pollution injury at 12 Southeastern Pennsylvania greenhouses.

During October 1970, a questionnaire will be distributed to greenhouse operators in Southeastern Pennsylvania to find out general information concerning individual greenhouse operations and to inquire about past air pollution injury cases

During 1971 Carroll will make personal visits to many of the growers in the study region and he will investigate reported air pollution injury when it occurs

Finally, a second questionnaire will be distributed late in 1971 in order to obtain accurate loss estimates for the final research analysis and conclusions

This air pollution economic effects study will be useful for many purposes including aiding greenhouse growers plan future production to minimize air pollution losses, helping State air pollution control efforts, providing some useful air pollution effect relationships for future research and assisting in the legislation of pollution control and research programs

Mercer Antique Show

The 19th Annual Mercer, Pennsylvania Antique Show and Sale, which will encompass the tri-state area and feature prominent dealers exhibiting various objects of antique art, will be held Friday, September 25, from 10 a m to 10 p m and Saturday, September 26, from 10 a m to 9 p m

The show is being sponsored by the Mercer Women's Club in the Mercer Area Community Building, Route 158, Mercer-New Wilmington Road.

Mrs Burchard Porter and Mrs Richard McDougall, chairmen for the show, report that the two day event will offer an unsurpassed range of quality antiques displayed by knowledgeable dealers from Pennsylvania and surrounding states The finest antique silver, china, lamps, brass, jewelry, glass, furniture and decorator pieces will be displayed with all items for sale

Virus Attacks Tobacco Crop

Tobacco farmers recently were alerted to be on the lookout for a new virus which is hitting the late tobacco crop

John Yocum manager of the Penn State Southeastern Field Research Farm Landisville estimates that one late crop of Pennbel hit by the virus shows a 51 per cent reduction with 21 per cent of the stalks too damaged to be harvested Pennbel makes up about 60 per cent of the county crop

Yocum said several farmers have indicated some virus damage

Penn State plant pathologists presently are studying some of the local virus damaged plants to determine the nature of the virus Yocum said efforts will begin next year to develop resistance to the virus

But at the same time he cautioned farmers not to give up on Pennbel just because of the one virus attack He explained that the virus may or may not recur next year and Pennbel is resistant to tobacco mosaic and wildfire, which can be equally as damaging as the virus

One type of plant disease thrives one year and another the next, he explained This year has been a good year for tobacco viruses

Yocum also noted that although many tobacco crops in the county apparently were hit by the virus, it didn't come until late in the season and most farmers apparently have been able to harvest the crop before substantial damage could occur By late this week, most tobacco in Southeastern Pennsylvania had been harvested

New Cooperators

New cooperators with the Lancaster County Soil and Water Conservation District this week were John Z Lauver 78 acres, Ephrata Township Paul W Zimmerman, 106 acres West Cocalico Township Walter Augsberger, 184 acres West Cocalico Township Catholic Cemetaries, 72 acres Lancaster Township Barbara Tossossky, 13 acres Caernarvon Township

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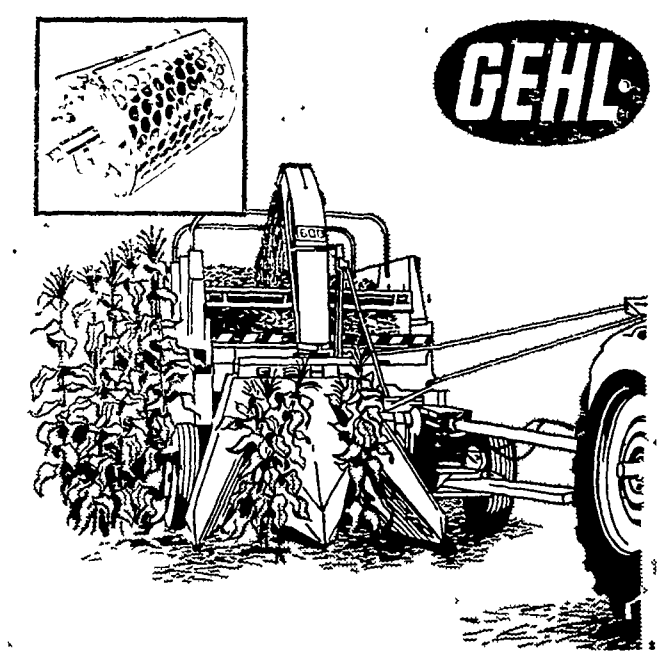

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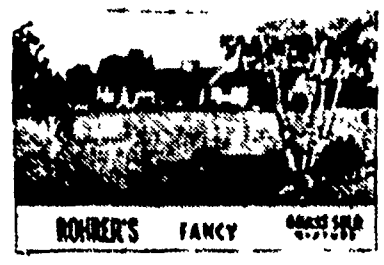

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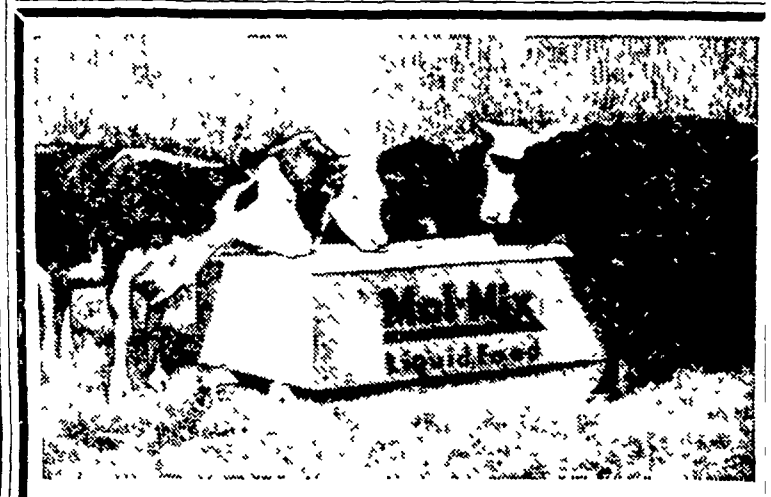

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Automated Manure

(Continued from Page 8)

moisture to 19 per cent, the cost was $10 08 per ton of product remaining; without heat cable the moisture was reduced to 30 per cent for a cost of $1 76 per ton of product remaining In other experimental periods the value of supplemental heat for drying was clearly demonstrated but the higher costs may prove the method impractical

Stirring droppings and use of fans underneath the sloping wire floor gave sufficient drying to result in a textured manure relatively free of odors and suitable for field application By removing a substantial amount of moisture inside the poultry house cost of hauling could be cut to one-third normal requirements

Experiment II 1968-69

Drying Methods Used

Ventilation

The ventilation system was quite similar to the one used in the 1967-68 experiments. However, some very significant changes were made

The size of the fans used for circulating air was increased An aluminum four bladed fan with a 16 degree pitch, powered with a totally enclosed ½ H P single phase motor instead of ¼ H.P. and delivering 4900 cubic feet per minute, was used. These fans were located in positions similar to the previous experiment.

The use of the more powerful fans resulted in an average air velocity of over 500 feet per minute in contrast to 250 feet per minute However, electrical consumption also was increased

After several trials it appeared that the distance between fans could be increased without seriously impairing drying capabilities From early February three fans were used in each pit area instead of four

The first two fans in each pit were about fifty feet apart lengthwise to the pit and pointed toward the manure-unloading end of the house The third fan was located at the end of each pit next to the cross conveyor and mounted so as to blow the air downward into the manure instead of lengthwise With this arrangement air velocities over 1,00 feet per minute were blown directly into the manure before removal at the unloading end of the poultry house

Stirring

Minor changes were made in the design of the stirring and cleaning mechanism to improve its efficiency.

Supplementary heat

Heat cables were eliminated in most of the experimental periods.

Procedures and Results

A number of preliminary drying trials were conducted with the two flocks of layers during the August, 1968, to March, 1969, period. Trials consisted of evaluating the significance of changes in air velocities, frequency of stirring, and to a limited extent use of heat cable Beginning in March and early April the number of fans per pit in each house was cut to three Stirring varied from four to ten times each 24 hour period No heat cable was used

In the one 30 by 100 feet house with leghorns housed on the A-frame sloping wire floor a total of 28,790 pounds were removed during 15 separate experimental periods from March 25 to July 14 The increase in electrical costs of ventilation for drying amounted to $45 88 or a cost of $3 05 per ton of manure remaining The manure averaged between 30 and 40 per cent moisture.

By further drying the manure after it was removed from the poultry house with a commercial dryer, the quantity of manure remaining was reduced to 17,556 pounds with less than 10 per cent moisture content. Combining the actual drying costs for increase in ventilation and the dryer, a total of $66 58 was obtained This calculated to a cost of $7 60 per ton of the less than 10 per cent dry manure remaining

In the other 30 by 100 feet house with the V-frame sloping wire floor, 27,550 pounds of manure, were removed during 14 experimental periods from April 3 to July 14 The increase in electrical costs of ventilation for drying amounted to $46 23 or $3.20 per ton of manure remaining averaging between 30 and 40 per cent moisture.

The total cost of drying for increase in ventilation costs and the dryer amounted to $68 04 or a cost of $7 80 per tone of manure remaining A total of 17,220 pounds of manure with less than 10 per cent moisture remained

When direct field application is planned, the first drying stage is all that is needed The manure can be removed on a continuous automatic basis or at intervals of several weeks

If both drying stages are desired in order to produce a dry manure suitable for sale as an organic fertilizer, the two stages can be integrated as a complete automatic drying system

From these and earlier experiments it was noted that on the average after the first stage of drying inside the poultry house the manure remaining amounted to slightly less than half the weight of feed consumed.

Thus, when chickens consume 1 ton of feed, approximately ½ ton of relatively dry manure remains

After the second stage of drying with the use of the commercial dryer, the weight was reduced to about 30 per cent of original weight of feed consumed. Hence, slightly over ¼ ton of dry manure with less than 10% moisture remains from each ton of feed consumed by the chickens

Capital Investment

The estimated capital requirements for a flock of 25,000 layers for a 40 x 400 feet house for total ventilation with exhaust fans and circulating fans over manure run between 10 and 15 cents per bird.

The stirring and cleaning mechanism, including the power unit, cable, reversing and recycling units and cross elevator, also runs about 10 to 15 cents per bird

The commercial dryer adds about 20 cents per bird to investment requirements. If the dryer unit used in the experimental work was operated on a 24 hour a day basis instead of about 8 hour shifts, the investment could be cut to about 7 cents per bird

The capital investments mentioned are not added costs in total since all poultry houses would require a certain investment in both ventilation and cleaning equipment The added costs over conventional fan ventilation and cleaning methods would not be very large

Benefits of Dehydration

1 The weight of manure to be handled can be reduced to about ¼ to ⅛ the original weight produced The manure is in a dry, textured form that can be easily handled, thus reducing handling costs

2 Odors inside the house and in the commercial drying process are practically eliminated. Frequent stirring of droppings and use of high velocity air not only speeds drying but prevents excessive growth of anaerobic bacteria, the organisms which manufacture the offensive odors. Elimination of these odors at the outset is essential if the final dry product is to be free of offensive odors

Only by having a dry product free of obnoxius odors can it be merchandised successfully.

Eliminating odors make possible the use of the sloping wire floor and its manure dehydration system near urbanized areas without causing a nuisance

3. Less "down-time" between flocks is required since the manure is practically all removed by the time the flock is removed. This is in contrast to systems where manure is permitted to accumulate over the life of the flock.

4 Labor requirements for cleaning are sharply reduced.

5 Fly breeding areas are constantly being destroyed thus keeping flies under control

6 Capital investment requirements are relatively low.

Agway

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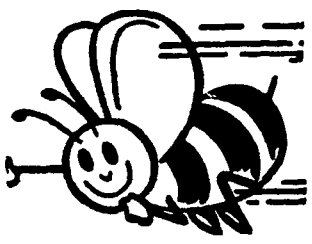

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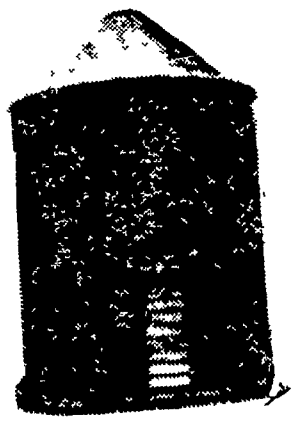

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Door Prizes And Refreshments

Taking the Odor Out of Manure

(Continued from Page 9)

is high in oxygen This operation is considered as **Stage 1 of the Penn State System.**

The cost for electricity to operate the manure drying fans and stirring mechanism runs about $3/ton of manure containing 30 per cent moisture At this stage the manure is dry and crumbly and is in excellent handling condition for field application without serious odor problems

However, Dr Bressler feels that by further drying the manure to less than 10 per cent moisture with a commercial dryer the manure may have new potential uses

With offensive odors eliminated, even when the dry manure is re-wetted the product has shelf life and can be used on gardens, flowers, and lawns

It has a potential use as a soil builder and revegetator of spoil banks and strip mining areas

It is being sought by mushroom producers for use in their compost mix

This second stage drying adds another $3/ton cost to cover fuel and electricity, but the returns may be far greater than both operating and capital costs once the value of the new product finds its place in the market

In the summer of 1969 one Cloisterdale house 40 feet wide and 488 feet long was converted to the Penn State system The house had three pit areas separated by posts about 13 feet wide running the length of the house Air circulating fans were mounted about 20 inches above the floor level down the center of each pit and spaced 25 feet apart A stirring, cleaning gadget was constructed and installed in each pit

With an uneven number of pits two power units were required to pull the stirring and cleaning mechanism The rakes are driven periodically the entire length of the house scraping, pulling spilling, mixing churning and aerating the raw droppings The fans above the droppings circulate the air which picks up moisture from the raw droppings

In contrast to the Penn State system where semi-dry manure is drawn from the house and fed automatically into a commercial dryer the procedure has been to periodically (about every five days) remove the semi dry manure (28 to 35 per cent moisture) from the house The manure is drawn to the end of the house where a conventional chain barn cleaner conveys it to a truck or dry spreader

This 28 to 35 per cent moisture product is very similar to dry

Herr demonstrates the texture of the 30 per cent dry manure which leaves the hen house under the new system The manure feels flaky and crumbly; it has very little odor.

roost manure You can pick it up in your hands and dust them off none will stick There is very little odor—a chicken odor yes, but not a manure odor

A number of advantages have been gained to this point the greatest being that of volume handled Instead of 28 tons of raw waste (70 to 75 per cent moisture) or 35 tons of liquid waste (90 to 95 per cent moisture) to remove or haul in a miserable fashion we now have in exchange each week 10 to 12 tons of a very easily handled product with some yet un-established value, little or no odor, no restrictions on weather or seasonal disposal, and no great labor problems

What about the economics of all this? There are three areas to be considered

1. Remodeling— The house we remodeled cost approximately 50 cents per bird I believe the next house would cut this by 20 to 30 per cent. With new construction, I would expect the cost to be 25 to 30 cents per bird. (And I just pulled this figure out of the air.)

2 Operating cost is approximately 12 cents per hen housed; reduced to 20 dozen eggs per hen, this is equal to 6/10 cent per dozen eggs produced

a Electricity—dependent upon electric rate, is approximately 7 to 8½ cents per bird annually, $7 per day per 30,000 hens.

b. Labor—for removal to truck, 3½ to 4 cents annually per bird (8 hours per week at $3 per hour).

3. Maintenance and Repair — No figures available to date.

We have been able to recover some of this cost by selling this semi-dry (30 per cent) manure, thus reducing the cost to about ½ cent per dozen.

What is being accomplished at Cloisterdale can apply to many poultry and livestock operations (large or small) in this area. The principles of stirring manure and blowing air across it can be applied to the varied egg production systems

The mechanics and physical adaptation of these principles becomes an individual farm situation Penn State researchers and Extension personnel are ready and willing to assist poultrymen in planning installations

The cooperative efforts of Dr Bressler and his staff and the men of Cloisterdale, Ed Bowser and Clarence Spatts, not only prepared the way in odor control for Cloisterdale but also for the industry as a whole. Dehydration can be an economical solution to the farm odors problem.

But Dr. Bressler is of the opinion that the future method of manure handling lies in adopting Stage 2 of the Penn State system. Selling the dry powdery manure containing less than 10 per cent moisture will turn farm manure problems into an asset.

Dr Bressler is gratified to see developments of a research project so quickly adapted to solution of a major poultry industry problem and the groundwork laid for controlling odors from all kinds of livestock.

Had it not been for the financial support ($30,000 annually for three years) given to the research project at Penn State by the Pennsylvania Department of Agriculture through its Harness Racing Funds, the rapid progress in developing the drying system would not have been possible.

This is an excellent example of government, university, and industry cooperation in seeking an answer to a problem quickly. The project has attracted considerable attention from other groups

The Coal Research Board of Pennsylvania has given a grant of $12,000 for each of the past two years to determine the value of the dehydrated product in revegetating spoil banks and strip mines in Pennsylvania.

The Pennsylvania Poultry Federation is supporting the project with a grant of $1,000 this coming year. These grants will give considerable assistance to the research program in waste management.

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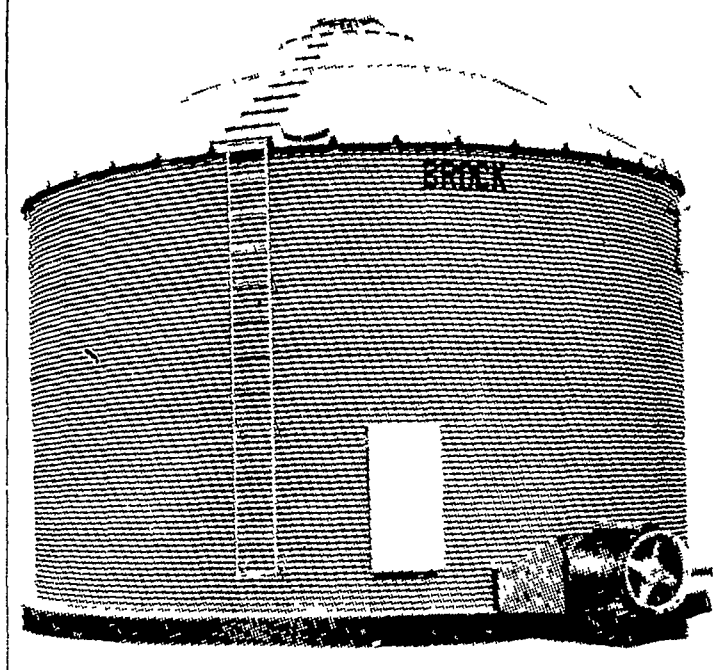

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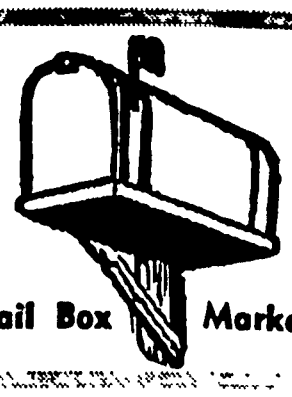

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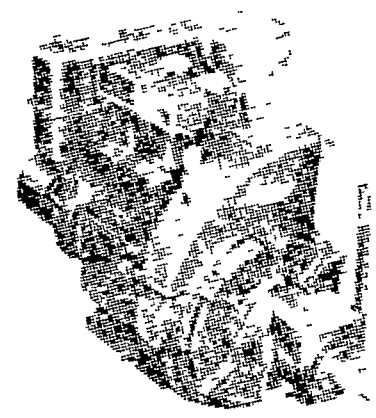

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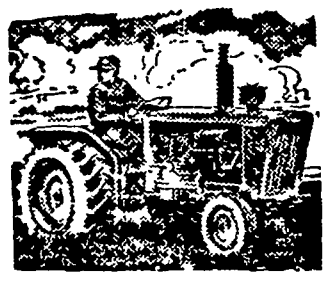

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3 Hog Cholera Cases Found In Md., 2 Areas Quarantined

Three new hog cholera cases have been detected in Maryland, two in Wicomico County and one in Prince George's County

The Maryland Board of Agriculture quarantined part of Wicomico County and Animal Health officials destroyed two herds of 145 hogs and buried them immediately to prevent any spread of the disease

The quarantine area beginning at the junction of Route U S 50 and Sixty Foot Road south to its junction with Maryland Route 350, thence following Route 350 east to its junction with Route 354 at Powellville, thence following Route 354 south to its junction with Route 374, thence following Route 374 east to the Pocomoke River, thence following the Pocomoke River in a northerly direction to its junction with U S Route 50, thence following U S 50 west to its junction with Sixty Foot Road

"Most of the hog cholera we are finding now is the pregnant sow syndrome type, such as both cases in Wicomico County," says Dr Robert Hammond, University of Maryland veterinarian

"In the pregnant sow syndrome, the pregnant sow seems healthy, but her piglets are stillborn, born prematurely, or die shortly after birth, because they have hog cholera This occurs when the pregnant sow has hog cholera or carries it, Dr Hammond explains

One of the farmers whose hogs were destroyed raised only 16 pigs from 20 sows since early spring Normally he should have raised at least 180

"What we would like is for people to report if they have any piglets die This is important not only for the regulatory program but for the hog raiser's own benefit One farmer has been having trouble since early spring, another since August Neither of the farmers asked for professional help," Dr Hammond adds

A third case of hog cholera was found in Prince George's County, and a herd of 132 hogs was destroyed This outbreak occured within two miles of a previous outbreak in Charles County The quarantine imposed on the southwestern part of Prince George's County and the northern half of Charles County August 6 will now continue for at least another 30 days

Farmers owning pigs in quarantined areas are allowed to sell them only for slaughter Slaughter hogs must be inspected by a veterinarian to make sure they are healthy before they leave the farm

Livestock inspectors and state and federal veterinarians will be working in quarantined areas, and all farmers are urged to cooperate with them

DRINC Announces Annual $1,000 Research Award

An annual award of $1,000 plus a plaque for outstanding research in dairy products development has been announced by Dr Richard E Farrar, Executive Vice President, Dairy Research, Inc, Arlington Heights, Ill

The award, sponsored by Dairy Research through the American Dairy Science Association, will go to a university researcher chosen by a special committee of ADSA The first DRINC award will be presented to the chosen recipient at the ADSA Annual Meeting in June 1971

Established in 1969, DRINC is a non-profit research and market development organization whose goal is to stimulate the development of new and increased uses for milk and dairy products It is financed entirely by milk producers, who, through their co-ops and Associations, account for about 73 per cent of all milk produced in the U S

"We are happy to sponsor this award program," Dr Farrar said, "and hope it will stimulate some bold, new thinking towards the development of increased uses for milk"

Dr D H Jacobsen, Technical Consultant to DRINC, will assist the Internal Affairs Committee of ADSA in the development of a set of guidelines for selecting recipients Dr Jacobsen is a former Director of ADSA, and before joining DRINC was Product Research Manager for the American Dairy Association.

Hay, Corn Winners At Ag Progress Days

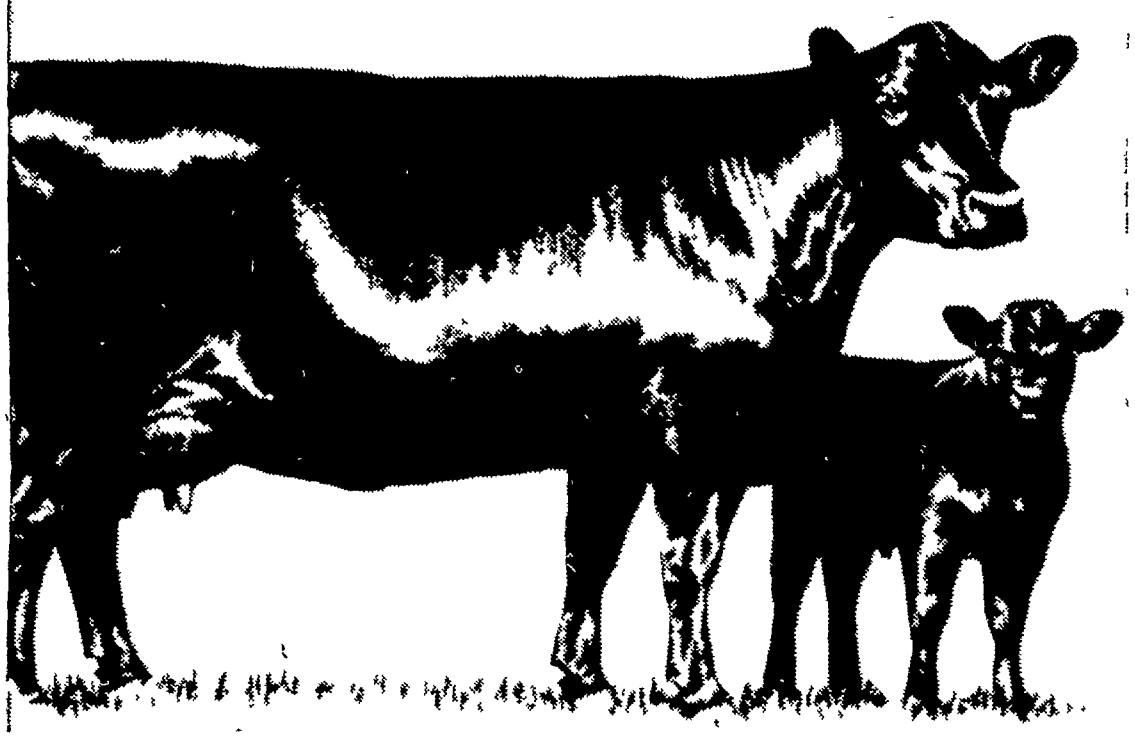
Warren Bucher of Myerstown, Lebanon County, exhibited the grand champion hay sample, a mainly grass, wilted sample, at the 1970 Agricultural Progress Days at Windy Hill Farms, Titusville last week

About 20,000 people participated in first day activities in which exhibits were shown by 75 farm products manufacturers and various state and federal agencies

Reserve champion in the hay show was Milton Hershey School Farms of Hershey, Dauphin County, a legume and grass mixed wilted sample

Grand Champion in the Corn Silage Show was Edgar Gish and Son of Lebanon RD3 The Gish sample was whole corn plant silage with no additives

Reserve silage champion was Ernest Mellinger of Quarryville Lancaster County He also exhibited a whole corn plant sample with no additives



An excellent Angus cow is the subject of this new picture just released by the American Angus Association

The cow has the femininity and structure to conceive regularly, calve easily and wean a heavy calf at least every 12 months

She also has the frame, size and muscling to produce fast growing calves that will weigh at least 1,100 pounds as bulls at a year of age And she should pass this ability along to her daughters

Her sons should sire steer calves that weigh at least 1,000 pounds at 365 days and produce an average USDA Choice carcass or better

If necessary they should also be able to take longer periods of feeding and continue to gain efficiently, then grade USDA high Choice or Prime without excess fat.

Lancaster Farming

SECOND SECTION

Pa. Grange Slates Officer Election

A full staff of officers, including master, for the concluding two years in a century of service will be elected by the Pennsylvania State Grange at its 98th annual meeting October 26 to 29 at Meadville

They will serve until the centennial meeting in 1972, an event that will fall just prior to the 100th anniversary of the founding or the state unit on September 18, 1873, in Reading

A Wayne Readinger, master, said William A Steel, New Freedom and Washington, D C, assistant steward, and Mrs Richard Koenig, Slatington RD1, will retire under a rule limiting tenure to six years Steel has been doubling in grange work as national director of youth activities

Others eligible for reelection, in addition to Readinger, are Overseer, Clifford Tinklepaugh Thompson, lecturer, Miss Mildred M Shultz, Somerset, steward, Marvin Miller, Gettysburg RD3, chaplain, the Rev James H Gold, Ickesburg, treasurer, John H Minor, Waynesburg, secretary, J Luther Snyder, Camp Hill gatekeeper, Robert E Steese, Grove City RD1, Ceres, Mrs Ruth Fish Towanda RD5, Pomona, Mrs J LeRoy Cooke, Cross Creek Flora Mrs William Buffington, Chadds Ford, and two elective committee members, Earl Mosier, Guys Mills RD1, executive committee, and George Cole, Limestone, finance committee Committee members will be elected for three-year terms, all officers for two years

Aside from elections, the Meadville session will act on resolutions, hear officer and committee reports and addresses by visiting speakers, select winners in a wide range of talent contests and exhibits, and consider convention sites for the next several years, including one for 1976 when the Grange will join in celebrating the nation's bicentennial. Speakers will include State Agriculture secretary Leland Bull.

The oldest and largest farm family fraternity in both the state and nation, and possibly the world, the Grange (short for Order of Patrons of Husbandry) has been active in Pennsylvania since early 1871 when Eagle Grange No 1 at Montgomery, Lycoming County, was instituted just four years after the founding of the order nationally

Farming News Briefs

IFF Cites Lititz Woman

Edna Shenk, Lititz RD2, received a Landit Certificate during ceremonies at the 25th annual convention of the International Flying Farmers Association recently in Ames, Iowa

The Certificates of Achievement was presented by Rodney M Tinney, of Continental Motors Corporation

Among the highlights of the family affair convention were election of international officers a tour of the Iowa State University Agricultural Engineering and Agronomy Research Center, and a seminar on Agri Futures made up of representatives from five major farm equipment manufacturing companies

The 1971 IFF Convention will be held in Edmonton, Alberta Canada

The IFF which began in Oklahoma in 1944, now has 8 000 members and 39 chapters in the United States and Canada Other members are scattered throughout the world

James M. Leuenberger

Holstein Information Director Named for U.S.

The appointment of James M. Leuenberger as director of information for Holstein-Friesian Association of America has been announced by Association management

In his new position, Leuenberger will be responsible for all internal and external communications for the breed This will involve a major portion of his time devoted to editing the Registered Holstein News, producing feature stories and standard news releases Other duties will include the development of promotion and information leaflets produced by the Association

A native of Iowa Leuenberger was raised on a Registered Guernsey farm at Fort Atkinson, Iowa During a nine year 4-H career he carried swine and beef projects along with activities in junior dairy work In addiion to holding all club offices he received the state 4-H dairy award in 1964

During his college career he worked at the University dairy farm on various calf feeding experiments In 1968 he received his B S degree in Dairy Science with a minor in journalism from Iowa State University He served briefly as a County Extension Assistant prior to entering military service

24 Chester County 4-H'ers Get Dairying 'Blues'

Some 24 of 54 dairy cattle exhibted by Chester County 4-H members received blue ribbons at the 25th annual Southeast District 4-H Dairy Show at Allentown Fairgrounds last week

Overall, some 165 cattle were entered from seven counties. Blue ribbon winners are eligible for the State Junior Dairy Show at the Farm Show Building at Harrisburg September 21.

In addition, 17 of the county's 43 exhibitors received master showman awards and 13 were designated master fitters.

Tina Kulp, daughter of Mr and Mrs Harold Kulp, Pottstown exhibited the grand champion Ayrshire cow, Eureka Majestic Maid

Porterdale Betty's Happy shown by Sharon Henley, Cochranville, was the reserved champion Ayrshire. Sharon is the daughter of Mr. and Mrs. Kennard Henley.

Melissa and Leslie Kennedy, daughter of Mr. and Mrs. Donald Kennedy, Coatesville, exhibited the champion and reserve junior champion Ayrshires.

Patricia Yarnall, daughter of Mr and Mrs. Hoopes Yarnall, Oxford, won reserve Grand champion honors with her Brown Swiss calf, Needmor Noble Marcia Lewis Wilkinson, son of Mr. and Mrs. Leon Wilkinson, Landenberg also won reserve grand champion honors with his Guernsey heifer, H. M. Rena of Edondell.

In Jersey competition, the reserve senior champion was Milad Maple Lawn Pollyanna, a two-year old cow shown by Nancy Wollaston, Toughkenamon. Nancy is the daughter of Mr. and Mrs. Charles T. Wollaston. Maria Thomas, daughter of Mr. and Mrs. George Thomas, West Chester, won reserve junior champion honors with her calf, Top-O-Hill Sleeping Pam.

Judges were Creedin Cornman, Holstein breeder from Cumberland County, and Merle Miller, also of Cumberland County. Cornman judged the Holstein and Milking Shorthorn breeds, and Miller judged the Ayrshire, Brown Swiss, Guernsey and Jersey breeds. Fitting and showmanship judges were Kermit Bossard, assistant Union County agent, and Richard Plotts, associate Wayne County agent.

39 Chester Co. 4-H'ers Survive Local Horse Show

Over 70 4-H Club members competed in the Chester County 4-H Horse and Pony Show recently and 39 of these members qualified for the district show by placing high in one of the 27 classes of competition

The district show will be held on September 19; 4-H Club members from 10 counties will compete for eligibility to go to the State Junior Horse Show in November in Harrisburg

In the grooming and showmanship contest, top honors in the junior division were won by Frances Dunn, Chester Springs, and Stephen Winckelman, Malvern; senior winners were Bonnie Gillespie, Coatesville and Verne Shaw, Downingtown

Spectators at the show were also treated to a precision performance by the Northern Chester County 4-H Horse and Pony Club Drill Team

Winners in the open classes were yearling Pam Taws, Paoli pony driving — Kathy Shaw Downingtown open trail—Pam Taws team—Deborah Roens of Phoenixville, Pam Taws and Melissa Kratz of Pottstown pair class—Deborah Roens and Pam Taws' brood mare — Loretta Chicarelli, Downingtown.

In the western division, the winners were: stock seat equitation junior division—Debby Fulmer, Spring City and senior division—Steven Lester, Uwchland, western pleasure ponies—Kathy Shaw and horses—Donna Williams, Morton; western riding—Debby Fulmer; pole bending and barrel race — Steven Lester

Winners in the English classes were saddle seat equitation junior division — Colleen McGuigan, Pomeroy and senior division — Kim Rishaw, Downingtown, hunter seat equitation on the flat junior division — Anne Yearsley, Coatesville and senior division — Pam Taws hunter seat equitation over jumps junior division—Frances Dunn and senior division—Melissa Kratz English pleasure pony — Colleen McGuigan, and horse—Kim Rishaw, hunter under saddle pony division — Frances Dunn, and horse division—Loretta Chicarelli, working hunter pony—Susan Olsen, Pottstown, and working hunter horse — Loretta Chicarelli

Winners of Chester Co. 4-H Roundup Announced

4-H Club members from all parts of Chester County exhibited their completed projects at the annual Chester County 4-H Roundup.

Members were judged on the quality of work they displayed. In each unit of project work a grand champion and reserve champion was named if the judge felt the exhibit worthy of such recognition.

Hosea Latshaw, Spring City, was named grand champion in two units, sweet corn and philately and reserve champion in forestry.

Named grand champion in two projects were Beth Hutchison, West Grove, philately and entomology, Robert Minshall, Avondale, photography and forestry; Jonathan Davey, Downingtown, geology and forestry; and Dale Nafziger, Phoenixville, handyman and tomatoes.

William Squire, Glen Mills, was named grand champion in handyman and reserve champion in wildlife while Joseph Kessel, Downingtown, was grand champion in bees and reserve champion in handyman with Cheryl Yoder, Spring City, receiving champion honors in indoor gardening and reserve champion in photography.

Other 4-H'ers named grand champions were: Thomas Jenkins, Toughkenamon, vegetables; Edgar Latshaw, Spring City, vegetables; Beverly Guest, Pottstown, strawberries; Emil Parvensky, Downingtown, photography, Carla Nafziger, Phoenixville, wildlife; and Donald Fehr, Downingtown, rabbits.

Grand Champions in flowers were Charlene Durham, Malvern, Janet McAllister, Oxford, and Ernie Pyle, Malvern. Named grand champions for entomology were Janet Hutchison, West Grove, and David Miskiewicz, Phoenixville while Kenneth Squire, Glen Mills, was named grand champion in bees.

Kathy Nafziger, Phoenixville, was reserve champion in both vegetables and indoor gardening. Other reserve champions were Larry Maule, West Grove, vegetables; William McAllister, Oxford, tomatoes; Karl Strohmaier, Oxford, strawberries; Suzanne Iseminger, Malvern, and Carol Yeager, Phoenixville, philately; Evelyn Williams, Landenberg, photography; Geoffry Ulrich, Downingtown,

(Continued on Page 19)

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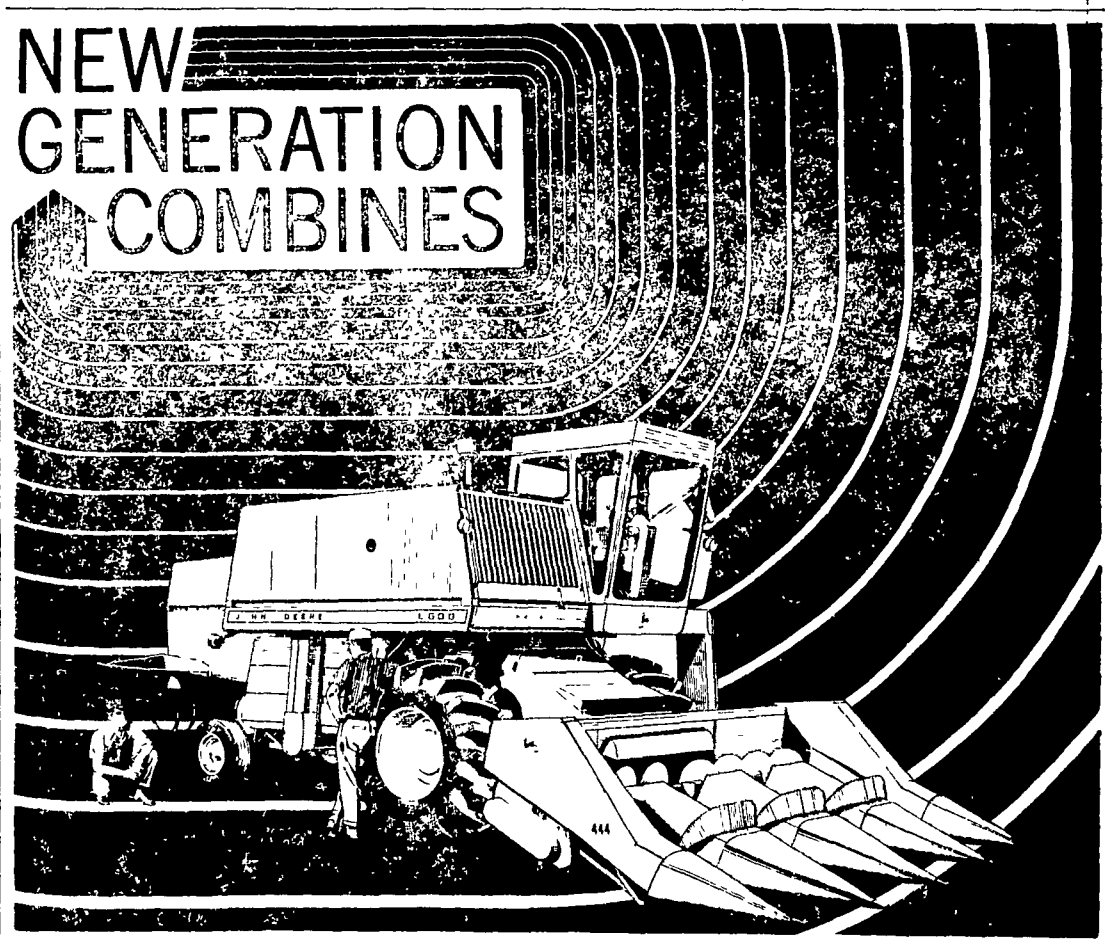

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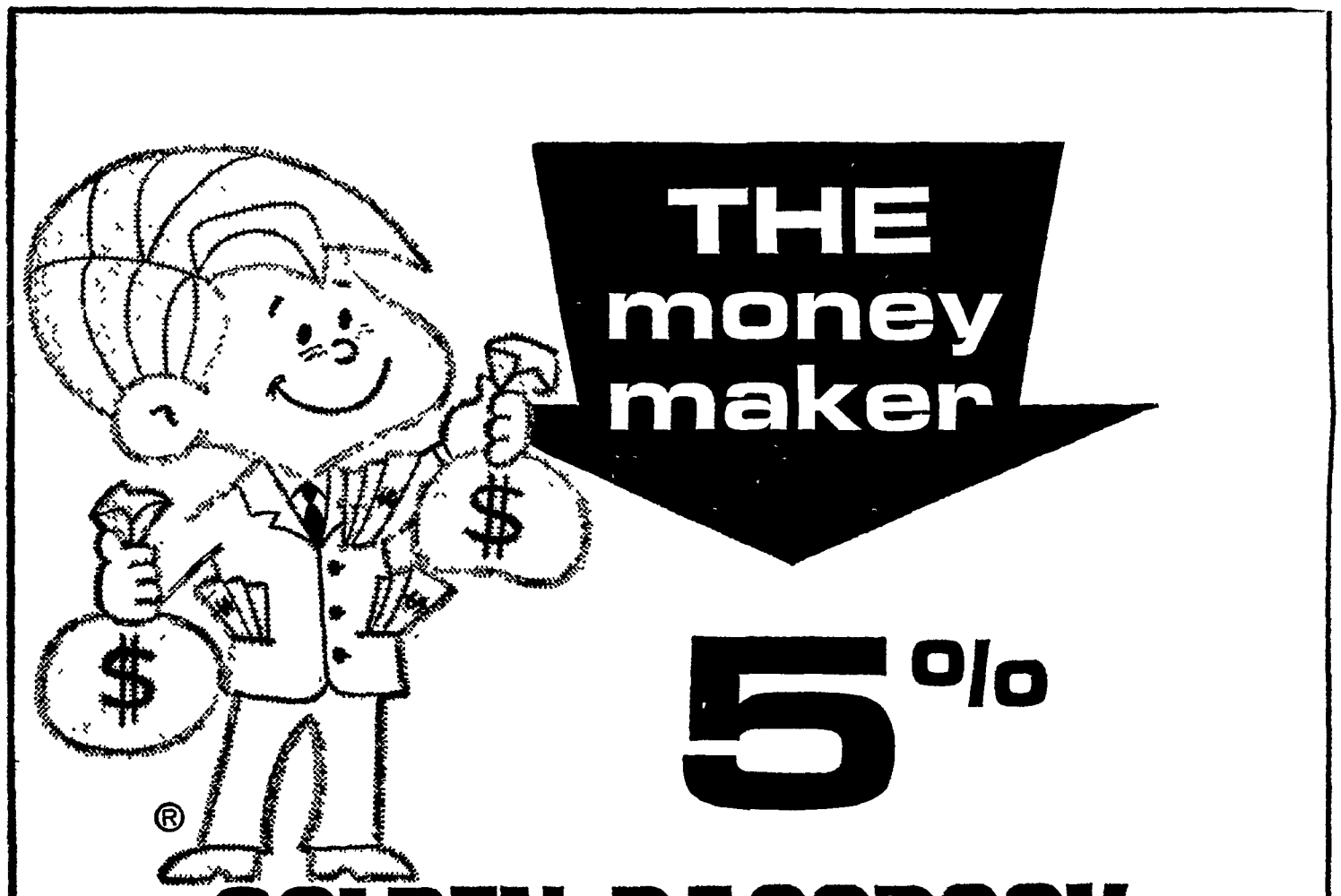
Progress in developing malting barley, a potential new crop for the East, was shown during a recent small grains field day held at the Agricultural Research Center of Penn State, 10 miles west of University Park. Describing the plots were Ahmet Akyurek of Turkey, left, graduate assistant in agronomy, and Dr. Robert P. Pfeifer, second from right, small grains breeder for the University. Among visitors were county agent Amos S. Zimmerman of Lewisburg, second from left, and Hugh R. McWilliam, right, seed company official of Buffalo, N.Y.



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Sire Power, NEBA Slate Open House

A chicken barbecue will highlight the annual Sire Power open house October 8 to 11 at Tunkhannock This year's open house will be co-sponsored by Sire Power and NEBA

Tickets for the open house barbecue on October 10 may be obtained from the NEBA technician or at NEBA, Tunkhannock Tickets should be purchased or reserved on or before Friday, October 2

Following this barbecue a short program will be offered to answer questions about Sire Power and NEBA Reports will be given by NEBA President, Ed Flitcraft, as well as by members of the Sire Power and NEBA staff

All of the Sire Power proven sires are now housed at Tunkhannock including the Holsteins King Ivan, Superb, Emperor, Transmitter, and many others including Lucvky, Vein, Image, and Gent.

Other new additions include the Jerseys Beacon and Dreamer, a new sire due to enter service late this fall Flashy and Maestro of the Ayrshire Breed may be seen Guernseywise, the newer sires are not housed here, but breeders will have the opportunity to review the present lineup

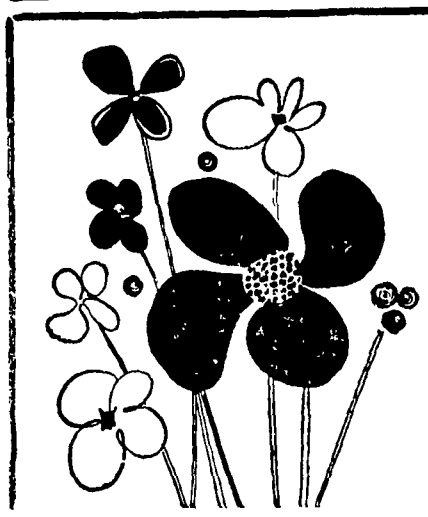
An open house will also be held at the Frederick, Maryland facilities (co sponsored by the Md ABC and W Va ABC) on Thursday, October 22, where approximately 40 Sire Power "in waiting" and "sampling" Sires are housed A chicken barbecue is included in this program

Chester Co. 4-H Winners

(Continued from Page 18)

geology, Douglas Warren, Chester Springs, forestry, Roderick Thompson Downingtown, bees; Jimmy Fehr, Downingtown, rabbits, Jenny Robinson, West Grove, and Carol Welsh, Honeybrook, flowers, and Stanley Guest, Pottstown, handyman

In the field of home economics over 500 ribbons were awarded to 4-H members completing projects in clothing and foods



FOR THE FARM WIFE AND FAMILY

by Mrs. Richard C. Spence

According to a recent bulletin published by the U S Department of Agriculture, most common nuts contain about 10 to 25 per cent protein and can be an added source of protein in meals Peanuts are highest in protein with about 25 per cent Coconuts and chestnuts contain very little protein

Nuts contribute rich flavor and crunchy texture to many kinds of foods. They are not only tasty, but nutritious as well You can add new interest to a familiar dish by adding nuts.

Nuts are filling because of their fat content and may prevent between-meal hunger pangs that encourage nibbling

Many of the nuts on the market — such as almonds, pecans, filberts, English walnuts, and black walnuts — are grown in this country. Other kinds of imported nuts include pistachios, brazil nuts, cashews, and cocoanuts.

Peanuts are not nuts as widely believed: they belong to the pea and bean family — the legumes They are included here because they are used as nuts in family meals and snacks

Chestnuts, although grown in the United States, are usually imported from southern Europe. They are available only in winter, while most other nuts can be purchased in some form yearround.

Shelled nuts and processed coconut cost more than nuts in shells, but they are convenient and take less storage space.

Nuts in the shell retain high quality longer than shelled nuts Whole nuts become rancid less quickly than nuts in pieces. Unroasted nuts keep better than roasted ones Shelled nuts will keep fresh for several months stored in tightly closed containers in the refrigerator Shelled or unshelled nuts can be frozen in tightly closed freezer containers at 0 degrees or lower

The versatile nut may come to the dinner table in a variety of ways — as an ingredient in cooking or as a garnish Nuts are also popular as a snack or served with appetizers.

Try the nut recipes that follow All recipes give the number of calories for a specified amount of food. In some cases, the variation of a recipe has a lower calorie value

GOLDEN CHEESE SALAD

- **3- ounce package lemon-flavored gelatin**
- **1 cup boiling water**
- **1 cup pineapple juice plus water**
- **1½ ounces cream cheese, chilled**
- **⅓ cup nuts (pecans, macadamias, or roasted peanuts, chopped)**
- **1 can (10½ ounces) crushed pineapple, drained**
- **1 cup carrots, shredded**

Dissolve gelatin in boiling water. Stir in remaining liquid. Chill until partially set. Cut cream cheese into 18 cubes. Coat cream cheese cubes with nuts and roll into balls. Stir pineapple and carrots into gelatin Add cream cheese balls Chill several hours or overnight until firm. Serve on lettuce leaves. 6 servings.

Calories per serving: About 170.

STUFFED DATE SALAD

- **18 dates, pitted**
- **3 tablespoons crunchy peanut butter**
- **2 grapefruit, chilled, sectioned**

Fill the dates with the peanut butter. For each salad, arrange three stuffed dates with grapefruit sections on crisp salad greens. 6 servings.

Calories per serving: About 135.

PECAN CHESS PIE

- **1 cup brown sugar, packed**
- **½ cup granulated sugar**
- **1 tablespoon flour**
- **2 eggs**
- **¼ cup milk**
- **½ cup butter or margarine**
- **1 teaspoon vanilla**
- **¾ or 1 cup pecans, chopped**
- **9- inch unbaked pastry shell**

Preheat oven to 375 degrees Mix sugars and flour. Beat in eggs and milk. Stir in fat, vanilla, and nuts. Pour mixture into pastry shell Bake 40 minutes or until a knife inserted in the center comes out clean Cool before serving. Cut pie into 8 servings.

Calories per serving: About 475 with ¾ cup nuts; 500 with 1 cup nuts.

SUNDAE NUT SYRUP

- **2 tablespoons butter or margarine**
- **½ cup pecans or English walnuts, chopped**
- **¼ cup brown sugar, packed**
- **2 tablespoons water**
- **2 tablespoons light corn syrup**

Melt butter or margarine in a small frypan. Add nuts and cook over low heat, stirring as needed, until nuts are lightly browned. Stir in remaining ingredients Simmer 2 minutes Serve warm over ice cream Makes ¾ cup, 6 servings

Calories per serving or syrup: About 150.

SUGAR - AND - SPICE NUTS

- **1 tablespoon butter or margarine, melted**
- **1 egg white, slightly beaten**
- **2 cups unroasted almonds, English walnuts and/or pecans**
- **1 cup sugar**
- **½ teaspoon salt**
- **1½ teaspoons cinnamon**
- **¾ teaspoon nutmeg**
- **¾ teaspoon allspice**

Preheat oven to 300 degrees. Slowly stir melted fat into beaten egg white. Stir in nuts. Mix sugar and spices. Spread about one fourth of the sugar mixture in a 10 x 15-inch shallow pan. Coat a few nuts at a time in remaining sugar mixture and arrange in the pan Sprinkle rest of sugar mixture over nuts Bake 15 to 20 minutes, or until nuts are slightly browned. Remove nuts from oven: stir gently to separate nuts. Cool Store in tightly closed container. Makes about 4 cups.

Calories per tablespoon: About 35.

PEAUNT BUTTER MUFFINS

- **1 cup milk**
- **1 egg, slightly beaten**
- **¼ cup oil or melted fat**
- **2 cups flour, unsifted**
- **1 tablespoon baking powder**
- **1 teaspoon salt**
- **¼ cup sugar**
- **½ cup peanut butter**

Preheat oven to 400 degrees. Grease muffin tins. Blend milk into egg and add fat Mix dry ingredients thoroughly; mix in peanut butter only until mixture is crumbly. Add liquid and mix slightly, leaving batter lumpy. Half fill muffin tins with batter. Bake 20 to 25 minutes, or until golden brown. Makes 12 muffins.

Calories per muffin: About 210.

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News For and About Area Women

Society Section

Society 6

Society of Farm Women 6 celebrated its 50th anniversary at a luncheon recently at Evans Restaurant, Manheim.

The Elizabethtown area Society of Farm Women 6 was organized with 10 members on Sept 20, 1920, by Mrs. Abram Wolgemuth, who was president of Lancaster County Farm Women at that time.

The first officers of Society 6 were Mrs. Harry Lehn, chairman; Mrs Menno Wolgemuth, secretary, and Miss Susan Engle, treasurer.

The present officers of the anniversary group are Mrs. Milton Eberly, president, Mrs Sarah Holsberg, vice president, Mrs Martha Eshleman treasurer, Mrs Charles Rite, secretary Mrs Bernard Thome, recording secretary.

Mrs Eberly, serving as president of the local group for the third time, has also served as County President In addition she served 12 years with the Society of Farm Women of Pennsylvania as state treasurer, director and pin custodian

During the anniversary program 10 past presidents of Society 6 were honored They are Mrs Clayton R Frey, Mrs Harrison Keller, Miss Lela Coble, Mrs Raymond Baum, Mrs Joseph Helm, Mrs Harry Saylor, Mrs Elvin Keener, Mrs Mary Geyer, Mrs Martha Eshleman and Mrs Milton Eberly.

Also honored was Mrs Anna Mary Miller, 88, the oldest member of Society 6 She was presented with a hand tatted handkerchief and a corsage

Other special guests included Mrs John N. Hess, president of the Society of Farm Women of Lancaster County, who commended the ladies of Society 6 for staying together as a working group for 50 years; Mrs Esther Petticoffer, active in Society 2 and daughter of Mrs Abram Wolgemuth, organizer of Society 6, commented on the work of her mother and the friendliness of farm women in general

Mrs Christ Moyer, the first secretary, and one of two living charter members related several incidents from early meetings including the demonstration of a 'new' canning process, cold packing

The other charter member Mrs Paul Heisey, the first treasurer was out of town and unable to attend but sent a letter for the occasion

The Memories of Women" was presented in song and word by Romayne Bridgett, Mount Joy Accompanying Mrs Bridgett at the piano was her sister, Mrs Joan Lockwood, Lancaster

Also featured on the program, which was arranged by the present serving officers, was a history of the society prepared by Laura Snyder and Mrs Clayton R Frey The sketch was presented by Mrs Frey

Society 14

Society of Farm Women 14 met Wednesday afternoon at the home of Mrs John Groff, Ronks R1. Twenty-seven members and three guests attended.

Hostesses were Mrs. Groff, Mrs Martha Ranck, Mrs. Pauline Stolzfus and Mrs Bertha Lefevre.

The Society is conducting a sale of Tupperware Late orders should be called to Mrs Evon L Hall, at 687-6633.

Mrs. Charles H. Leaman read correspondence from the Korean orphan the Society is supporting Members are requested to donate cakes, pies, cookies, jelly, fudge, etc, for the food sale to be held at 10 a m, Oct 10 in front of the Strasburg Pharmacy.

Mrs Esther Kreider and Mrs Jean Thomas served as auctioneers at Wednesday's food and plant sale It netted over $60 In place of the October meeting a bus trip to Hershey Medical Center is planned The bus will leave Strasburg Fire Hall on Wednesday, Oct 21 at 8 30 a m.

Society 22

Society of Farm Women 22 announced plans for a bus trip to Harrisburg September 15

While there the women will tour the Governor's Mansion, the state capitol, and shop at the Harrisburg Mall

The bus will leave Lancaster at 7 45 a m Further details on the trip may be obtained from Mrs Lester Landis, 2008 Creek Hill Road, Lancaster

Ladies, Have You Heard? . . .

By Doris Thomas, Extension Home Economist

Why You Spend Money As You Do?

Without realizing it, many families try to buy intangibles — possessions that they hope will bring such things as power, status, respect, and security

THOMAS

Status is what some men are reaching for when they buy new furniture for the office or riding lawn mowers And women can do the same thing when they serve guests expensive dinners

Recognizing these traits is the first step in understanding why you spend money the way you do When you are honest, you find you are trying to buy feelings instead of things you really need, can afford, and will use Do you want to buy a color television set because the neighbors have one? Are you planning to buy camping equipment to draw your family closer together?

These are some of the varied psychological reasons that affect the way families spend their money Once you understand your own reasons, it is easier to see why family members might not want to spend money in just the same way

When it comes to shopping for a new car, your family may have different ideas for using the money That is why it is important to discuss, as a family both large and small purchases Being aware of why other family members want to spend the way they do could pave the way to smoother family relations

Admitting the real reason for spending can show families why they buy the things they do Also listening to reasons instead of emotions could help your family stay out of unpleasant financial situations

Volunteer Services For Leisure Time!

Now that the youngsters are back in school, volunteer work can provide the change of pace you may need from your daily routine You can volunteer your services for many different reasons and choose from jobs that range from donating money to self commitment and long hours of work

You can be a 4-H or scout leader or work with other youth

(Continued on Page 24)

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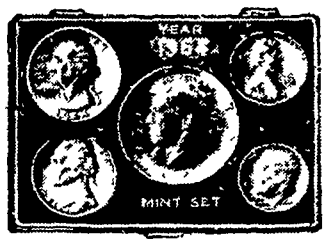

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Bigger Meat Supplies Seen This Fall

(An analysis by H Louis Moore, Penn State ag economist.)

The approach of fall warrants a look at livestock supply and price prospects Many producers wonder how things could change so much in just one year

Last fall hog producers were winding up their most profitable year and now they are preparing for sharply lower prices

Beef prices fell sharply last summer but this summer they advanced to levels slightly above a year ago.

Lamb producers have been disappointed with lamb prices which are about $2 below a year ago despite reduced supplies

Strong Meat Demand

The slowdown in the general economy has not reduced the demand for meat as was earlier feared

Total red meat consumption in the first half of 1970 averaged just over 90 pounds per person almost the same as a year ago

Beef consumption was up 2 2 pounds because of a four per cent increase in domestic production in addition to a 19 per cent rise in beef imports

Pork consumption was actually six per cent less per person in the first half of 1970 Veal consumption also dropped six per cent in the first half of this year Lamb and mutton were at about the same rate as a year ago

Continued strong demand will be the biggest strengthening factor in livestock prices during the months ahead

Beef Outlook

Strong demand for beef is evident considering that retail stores moved four per cent more beef in the first half of 1970 at steady to slightly higher retail prices Choice grade beef averaged 98 6 cents per pound in June compared to 97 3 cents in January and 99 4 cents in March

There may be some downward pressure on cattle prices this fall because of factors in and out of the beef industry

Beef producers are expected to market three per cent more fed cattle in the July September period and about the same number in the fall months as a year ago

Weights are still running higher than a year ago with an adverse impact on prices Although supplies of fed cattle will not be much greater than a year ago producers will have a better chance of holding prices at near current levels if they market cattle as soon as they reach grade

Two factors that could have an impact on beef prices this fall are (1) an expected supply of broilers which will be five to seven per cent above last year and (2) a sharp increase in pork production The old question, will consumers substitute pork for beef' may be answered this fall

Cattlemen looking for feeder cattle will continue to be working against a negative price ma-

In mid August, feeder calves were selling for about $39 50 at Kansas City a fall $4 above a year ago The prospects for higher feed prices this year may tend to further reduce feeding margins

Hog Outlook

In contrast to feeder cattle feeder pig prices have dropped, reflecting the expected price situation for slaughter hogs in the months ahead While mid-August slaughter hog prices are averaging $3 to $4 below a year ago further price declines are expected in the months ahead

Producers increased farrowings about 13 per cent this past spring and announced intentions to increase farrowings 17 per cent during the June to November period If these intentions are carried out, we will have the largest fall pig crop on record It may exceed the record fall crop of 1968 by as much as nine per cent

The intended farrowings for this fall could be somewhat reduced from the intended 17 per cent increase Some farmers when they saw how large the increase was, may have marketed fed gilts for slaughter

Prices on the futures market indicate that slaughter hog prices may fall to about $19 50 in December No recovery of prices is expected in the early months of 1971 as slaughter supplies will continue large

Pork prices will get little support from other meats Beef supplies will be at least adequate while broiler supplies will be five to seven per cent greater than a year ago throughout most of the fall

Cold storage holdings of pork will be another burden holding prices down Cold storage holdings on July 1 were about 22 per cent above a year ago

The increased supply of meat expected this fall will be good news for consumers but will cause some belt tightening among livestock producers

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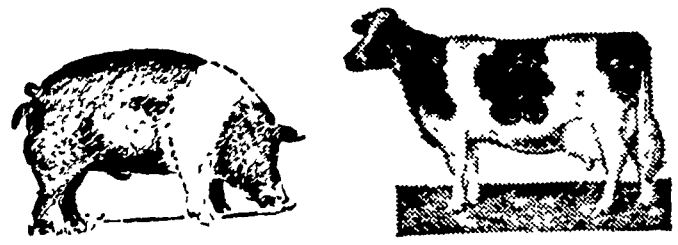

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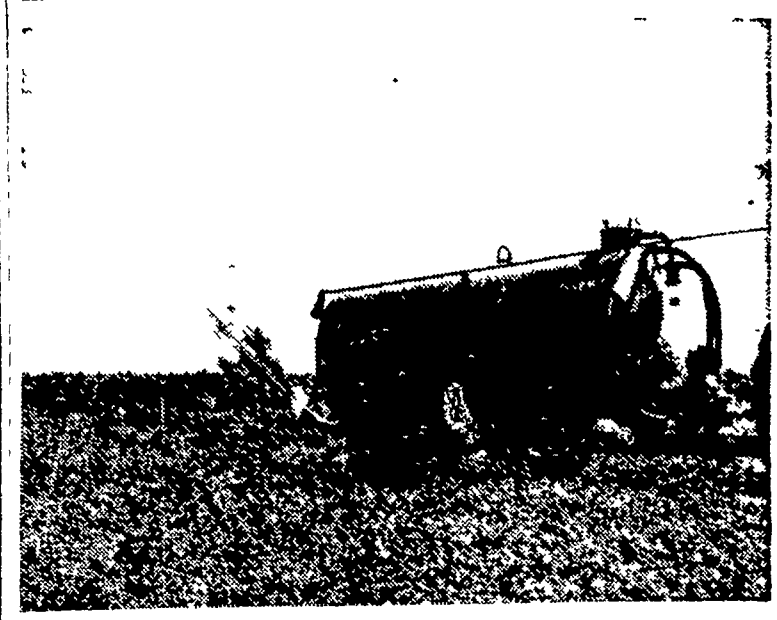

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To help you save on dry cow feeding, Purina Research recommends varying feeding levels depending on cow condition and the quality of your roughages. For example if a cow is in good condition and your roughages are of excellent quality you would feed less Purina dry cow ration than if the cow were in only fair condition and if the roughages were of only fair quality.

Using Purina Check-R-Mix* formulas we can build you a low cost dry cow ration, combining Purina Dairy Conditioner with your grain Or, if you're feeding low protein roughages, it may pay you to feed Dairy Conditioner "straight" — just as it comes from the bag.

More and more successful area dairymen are proving that good dry cow feeding pays off in extra cow condition — and extra milk production in the next lactation For example, 100 to 200 pounds of additional body weight at freshening can pay off in 1 000 to 2 000 pounds of extra milk during the lactation.

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My Neighbors

What's New?

A unique subirrigation tubing recently introduced by Borg-Warner Corp., is implanted under a Valencia orange grove in Riverside, Calif.

A 3,000-foot reel of the 9/16th-inch tubing is fed through a metal guide tube behind a conventional tractor. Two men laid 19,000 feet of tubing in about seven hours. The 2¼ acre plot contains 252 trees set on 20-foot row spacing.

Micro-Por, which has 1,000 microscopic holes per foot, is buried 11 inches in sand loam and three feet from base of trees.

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Antiquing with Joel Sater

Customs Still Ignores Law On Permanent Marking Of Imports

As many of my readers know, I've been conducting a one sided battle with the Customs Department of the United States Treasury for several years now. I say "one-sided" because I'm the only one doing the fighting, the Customs Department just buttons itself up in the security of its bureaucracy and ignores me

The gist of my whole complaint is that I say current laws require all imports to have permanent markings The gist of the Customs Department reply when they bother to reply is that they permit paper label markings on imports because permanent markings might injure the produc

My reply to that is that Customs evidently does not know or is unwilling to recognize that for hundreds of years makers proud of their products have always tried to mark them so they would not be easily confused with someone elses craftsmanship

Frequently, makers unwilling to permanently mark their wares are copyists hoping to knock off" the originator by producing similar items to sell for lower prices

The Customs Department is actually breaking the law by allowing foreign makers to ship hard goods into this country bearing only paper labels But they justify their actions with the usual government gobbledygook that no one can understand or argue against The only thing that will ever force them to change their attitude will be pressure in the form of letters and cards from collectors demanding that they "cease and desist"

The law requiring permanent markings exists It's only necessary for collectors to raise so much cain about the situation that Customs will have to come around

Meanwhile, I'd like to call Custom's attention to Jack Feimster who has a country store at Allenwood, New Jersey Jack sells antique firearms He also sells reproductions of antique firearms

The reproductions I carry are made in Italy," Jack points out. "And 'Made in Italy' is permanently and deeply stamped into the metal barrel In addition each piece is rifled in the opposite direction of the one it was copied from Each piece is also numbered. Thus there is no change of a novice collector being mislead"

Hooray for Jack and the Italian firm making the reproductions. These are handsome, decorative pieces They sell for about half the price of similar original pieces Many people will be happy to own one And the pieces are well made, often workable and certainly decorative. There is absolutely nothing wrong with anyone reproducing any thing old. But there is something decidedly "right" about the firm making them who takes enough pride in its work to openly and boldly pronounce them "reproductions"

Or perhaps you require this for firearms but not for glass and pottery. It this is the case, I'd surely like to her your justification.

C Joel Sater. Always happy to receive reader's stories about antiquing and collecting. Material sent becomes the property of this column and cannot be returned For free list of hundreds of books on antiques send 9x12 self-addressed envelope with 12c stamp. Write c/o this newspaper.

Most of the firearms shown above are modern reproductions made in Italy This fact is permanently embossed on each Only three pieces are genuinely antique, the Kentucky half stock, fifth from bottom, about 1850, the shotgun, second from bottom, about 1875 and the all brass saluting cannon, about 100 years old. The rest including the pistols are plainly marked "made in Italy." Shown by Jack Feimster, Allenwood, N.J.

● Ladies, Have You

(Continued from Page 21)

groups, be a hospital visitor help elderly citizens adjust, tutor young people, or teach a class and share a particular talent you might have

Not only does volunteer work offer a legitimate service for someone in need but it also can provide a meeting ground for people with similar interests

What may be volunteer work today can lead to professional interest later If you enjoy hospital volunteer work you might decide to train for a nurses aide or a practical nurse

You can do many volunteer jobs right at home If you are tied down with young children or other responsibilities, you might consider becoming a volunteer caller for a church or organization or do emergency baby sitting

Before you decide to take on volunteer work be sure you can handle both the job and your family You will need to set your own priorities on what kind of volunteer help you can give with what age group, and how much time you can devote to the job

Farming News Briefs

Mennonite Board News

Dorothy Sauder of Manheim returned to Pine Grove Academy, Tegucigalpa, Honduras on August 21. She will serve as a cook there for two to three years under the Eastern Mennonite Board of Missions and Charities A commissioning service was held for Miss Sauder on August 16 at the East Petersburg Mennonite Church.

Miss Sauder's address is Apartado 143-C, Tegucigalpa, Honduras.

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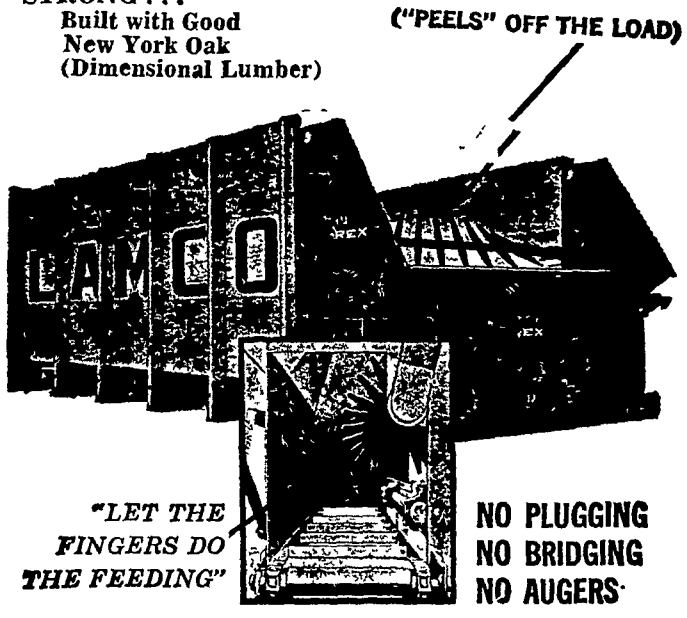

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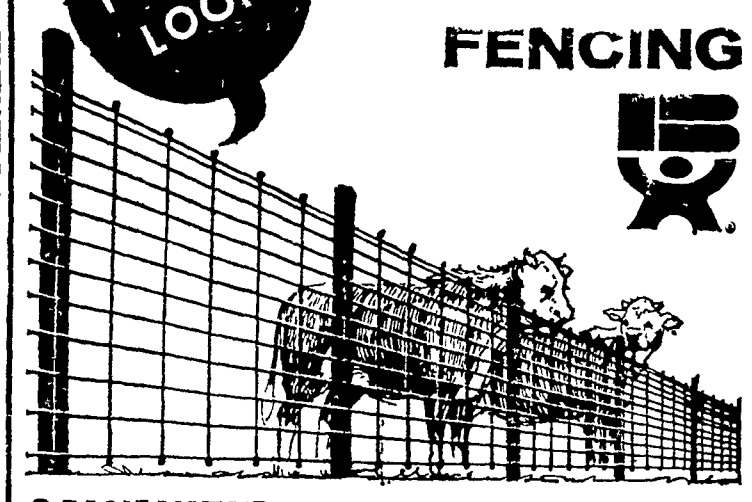

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600 of 2,000 State Growers Survive

Christmas Trees Lose Some Glitter

In the 1950s there were an estimated 2,000 Christmas tree growers in Pennsylvania Today there are approximately 600

What happened?

The number of Christmas tree growers melted like snowballs because of slim profits and because of the advent of the artificial tree, according to the Pennsylvania Department of Agriculture.

After World War II, raising Christmas trees became the popular thing to do for a variety of non-agricultural people — physicians, dentists architects and businessmen of all sorts

Here was a real bonanza, a mother lode an untapped source of wealth Here was an item that could be bought for two cents and planted on low priced land You could sit back, do nothing, watch it grow and collect $3 for it a few years later

Or so it seemed

The types eventually learned that few Christmas trees can make it on their own into a family's living room They need shearing and care before they can become a fine-looking, perfect tree The shearing and care require labor and equipment and involve much expense

Something else was happening The U S was becoming increasingly affluent and demanding Mrs Housewife wanted the perfect Christmas tree

Because of her demands for perfection, hundreds of thousands of Christmas trees which just plain grew and received no attention never were cut and never reached the stage where they would support glittering tinsel and colored balls

Exit many would-be Christmas tree growers

Professional Christmas tree growers are so aware of the necessity of marketing quality trees that they seldom cut more than 50 to 60 per cent of their crop for the holiday season The less-than-perfect specimens are destroyed

Need it be said that the destroyed trees receive the same care, involving the same expense, that the perfect trees receive?

Artificial trees haven't been exactly a godsend to Pennsylvania's Christmas tree growers

Every time an artificial tree is purchased it means a sales loss of four to five natural trees because a housewife will usually keep her artificial tree for four to five years

Artificial trees which have become increasingly attractive, have certain advantages They can be kept for more than one year and constitute no disposal problem

They have tremendous sales advantages They are usually displayed in a beautiful setting in a warm department store Lighting effects add to their attraction

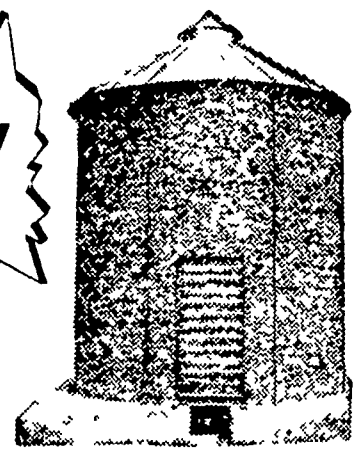
But natural Christmas trees remain the favorite Millions of Pennsylvania grown trees will go to market this fall

Indiana County the Christmas tree capital of the world will send more than three million trees to markets deep in the south and as far west as Texas

Still your best crib buy

See Us Today

Over 1200 bu. capacity-



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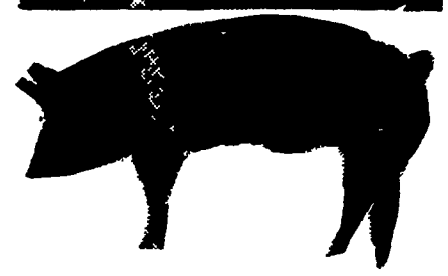
Wire mesh panels are 5-gauge wire — thick as a ¼" bolt! No bulge or sag. Sturdy 26-gauge galvanized roof is securely anchored to 9 steel roof rafters and side panels. Can't blow off!

Come in today and see the Speedy Bar-Lok corn crib. Let us prove to you that Speedy is twice as fast — twice as easy to erect. Let us show you all the other features that make Speedy Bar-Lok your best corn crib buy.

GRUMELLI FARM SERVICE

Quarryville Ph: 786-3630

Which way do you want to have a regular monthly income?



With the Pioneer system, hogs can provide you with an income of $600 per month. Interested? See us.

Pioneer Gets The Job Done. Why Not Give Us A Try?

CALL YOUR PIONEER MAN:

RED COMB PIONEER SINCE 1870

ELMER M. SHREINER

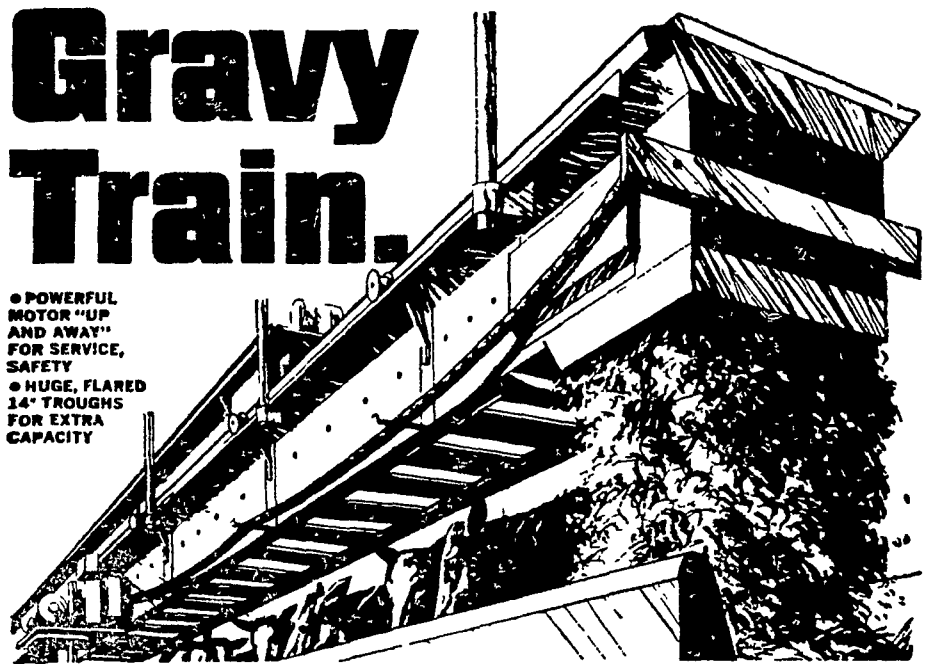
Trading as Good's Feed Mill

Specializing in DAIRY & HOG FEEDS

New Providence, Pa.

Phone 786-2500

Gravy Train.



- POWERFUL MOTOR "UP AND AWAY" FOR SERVICE, SAFETY
- HUGE, FLARED 14" TROUGHS FOR EXTRA CAPACITY

Strength, Performance, Dependability. You've got 'em all with VAN DALE'S NEW TRAVELING BUNK FEEDER.

Van Dale's SCF-1400 is the traveling feeder to put you on the track to faster, more profitable operations. Automatically, it delivers up to 40 tons of silage per hour to bunks on a single chain, continuous "shuttle" service.

Feeder trough chain is No. 67 pintle (12,500 lb. strength) and drive chain is C-550 steel (average top strength of 10,000 lbs.). Interlocking, snap-together galvanized metal components reduce erection time as much as 50%. Suspended or floor-mounted, rails are mounted with Van Dale's exclusive clip-on brackets to provide extra-rigid support. Unit adapts to any feeding need in-barn or out-of-doors.

CALEB M. WENGER

R. D. 1

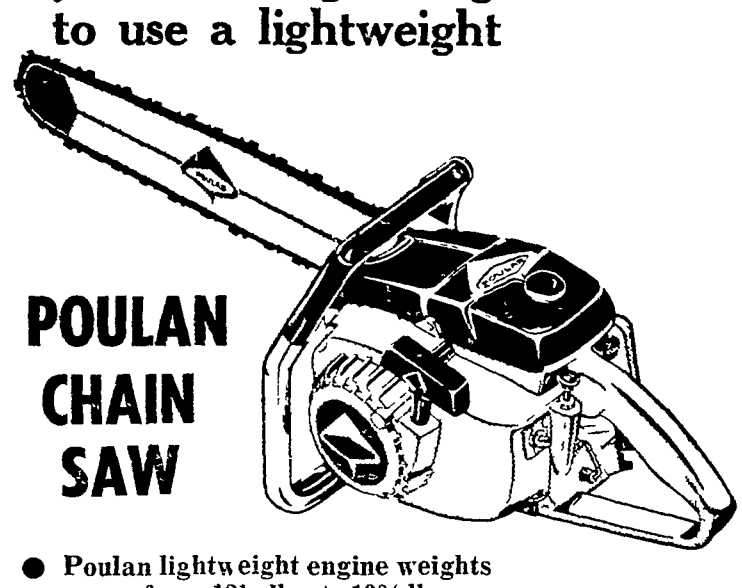
Drumore Center

Quarryville, Pa.

Phone 548-2116

VAN DALE

If you're big enough to use a chain saw you're strong enough to use a lightweight



POULAN CHAIN SAW

- Poulan lightweight engine weights range from 12½ lbs. to 13¾ lbs.
- Displacement ranges from 3.6 Cu. In. to 4.5 Cu. In.

These may be lightweight chain saws but there's nothing light weight about Poulan performance See 'em in action today We'll be glad to give you a demonstration

Poulan Chain Saw prices start at a low $139.95

ELI F. KING

POND ROAD, RONKS R.D. 1

(2 miles northwest of Intercourse) Phone: 768-3670

PUBLIC SALE REGISTER

SAT SEPT 12—12 Noon Sale at the farm 25 miles south of Lancaster Selling 65 Holstein cows and heifers Sale by Seth J Lapp, Owner For Catalog write Leroy C Sensenig, Auctioneer and Manager, Quarryville RD2 Phone 717 786 3128

SAT SEPT 12 — 12 00 Noon Registered Holstein Dispersal sale, of 45 cows, 20 heifers, outstanding breeding good records, located 25 miles South of Lancaster, 3 miles South of Little Britain Sale by Seth J Lapp Leroy Sensenig, Auctioneer

THURS SEPT 17—12 00 Noon Daniel S Esh Complete Dispersal at the Guernsey Sale Pavilion, Lancaster Pa located 6 miles east of Lancaster Pa right on Rte 30 Sale by R Austin Backus, Inc Sale Mgrs & Auctioneers Daniel S Esh Gordonville Pa owner

FRI SEPT 18—10 A M Public Auction of New and Used Farm and Industrial Equipment located on Rt 181, Emigsville Pa Exit 10 or 11 off interstate 83, 20 miles south of Harrisburg Pa Terms by York Co Farm & Industrial Equipment Co Inc

FRI SEPT 18—7 30 P M Fall Yearling Cattle Sale to be held at the Farmers Livestock Exchange, Inc located 1½ miles west of Winchester, Va on U S Route 50.

FRI SEPT 18—7 30 P M Fall Yearling Sale to be held at the Farmers Livestock Exchange, Inc Winchester, Virginia Sale by Northern Virginia Livestock, Inc, Winchester, Virginia.

FRI NIGHT, SEPT 18 — 7:30 Dairy Cow Sale at Black & White Holstein Farm, across from Comet theatre, US 230 By Pass, Lancaster, Pa, Sale by Charles C. Myers, Owner

SAT SEPT 19—10 a m Public sale of valuable farm implements, antiques, and personal property. Located at Wrightsville RD1 on the East Prospect-Craley Road near East Prospect Terms by Ernest and Margaret Leibhart Jacob A Gilbert, Auctioneer, and Frey - Leber - Kline, Clerks

SAT SEPT 19—2 P M Public Sale of the 4 Way Farm on the premises at intersection of Line Road and Wabash Road, Stevens, Lancaster County Pa Terms by Alvin L and Erla Henly, H H Leid, Auct

TUES SEPT 22—1 P M Feeder Calf Sale (1200 head) located at Orange Virginia

TUES SEPT 22—7 P M Virginia Beef Calf Sale (600 Calves Crossbred Angus Hereford) at Shenandoah Valley Livestock Sales, Inc, Harrisonburg, Va

WED SEPT 23—1 P M Feeder Calf Sale (1400 head) at Charlottesville, Virginia

THURS SEPT 24—1 P M Feeder Calf Sale (1200 head) at Culpeper, Virginia

THURS SEPT 24—7 P M Feeder Calf Sale (1500 head) at Marshall, Virginia

FRI SEPT 25—1 P M Feeder Calf Sale (1200 head) at Staunton, Virginia

FRI. EVENING SEPT. 25 — Horse sale at Martin's Sale Stables, Blue Ball, Pa. Terms by Paul Z. Martin. Phone 717-354-6671.

FRI SEPT 25 — 1 30 P M Special Sale of Feeder Cattle and Calves at Blue Ridge Livestock Sales, Inc, Charles Town, W Va

FRI. SEPT. 25—2:00 P.M. Public Sale of Valuable Real Estate, 94 acre farm located 5 mi. east of Rt. 23 along Peters Road, 5 mi south of New Holland or 5 mi Northeast of Intercourse. Terms by Frank H Hershey.

(Continued on Page 27)

EVERY TUESDAY,

CATTLE SALES

featuring large selections of cattle & calves direct from producers.

Staunton Livestock Market, Inc.

C & O Flats

SPECIAL SALE

FEEDER CATTLE & CALVES

Friday, September 25th

At 1:30 P.M.

Blue Ridge Livestock Sales, Inc.

Charles Town, W. Va.

Billy F. Owens, Mgr.

Phone: 304-725-5021

SPECIAL FALL FEEDER SALES

Friday Evenings At 7 O'clock

September 25 — October 9 & 23

October 16 — All Charolais Show & Sale

November 6 & 20

Approximately 700 Head Each Sale

All Weights and Breeds

Vintage Sales Stables Inc.

Box 100, Paradise, Pa. Lancaster County

The Heart of Pennsylvania Steer Feeding Country

Anyone Wishing to Consign Cattle Telephone

Area Code 717 - 442-4181

KENNETH E. HERSHEY, MANAGER

ATTENTION!

FALL FEEDER SCHEDULE

Lancaster Union Stock Yards

Sales Pavilion

All Sales Friday at 1:00 P.M.

Sept. 25 Oct. 9 and 23

Nov. 6 and 20

Valuable Door Prizes to be given away at each sale

Sponsored by:

THE LANCASTER LIVESTOCK EXCHANGE

AND UNION STOCK YARD CO.

FEEDER PIG SALE

Saturday, October 3, 1970

1:30 P.M.

2½ miles south of Bethel from U.S. 22 and 6 miles north of Myerstown, Pennsylvania along U S. 501.

350-400

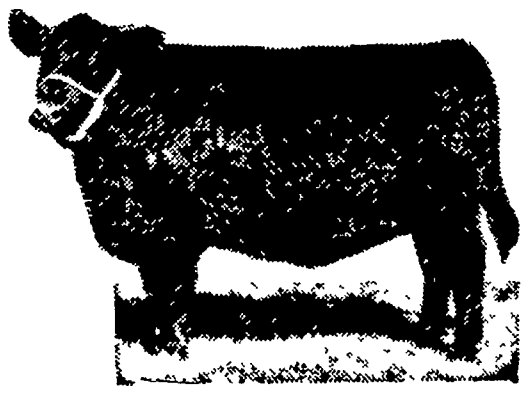
40 - 60 Pounds Choice Feeder Pigs

Hamp-York-Duroc cross All pigs are vaccinated for erysipelas Castrated, wormed, sprayed for lice and mange. All pigs were raised on this farm. No outside pigs will sell on this sale. These are some of the finest quality pigs in the East.

NORMAN M. MARTIN

Route #1 Myerstown, Pennsylvania 17067

Finance Your Feeder Cattle At



FARMERS NATIONAL BANK

Lititz

LITITZ, PENNSYLVANIA

Lititz Neffsville Lancaster Shopping Center Park City

SEE US FOR

PROMPT — COURTEOUS SERVICE

MEMBER F.D I C.

PUBLIC SALE

OF THE

4 WAY FARM

SATURDAY, SEPT. 19, 1970

On the premises at intersection of Line Road and Wabash Road, Stevens, Lancaster County, Pa. containing 30 acres more or less with 2½ story, 2 family frame dwelling with 10 rooms, 2 baths and ½ bath, water, electric oil fired hot water heat, spacious lawn with open fireplace and large shade, hip roof barn and implement shed and garage and work shop, tobacco shed, stripping room and cellar with implement shed attached, chicken house, space to house 800 laying hens and to hang 5 acres of tobacco. There is 1858 feet of railroad frontage and 3500 feet of highway frontage along Wabash line and Indiantown roads with township water system for most of the frontage. Ideal for commercial or development purposes and also excellent farming land

Sale at 2 P M Inspection of farm anytime. Inspection of dwelling by calling 267-7009 for appointment.

Terms by

ALVIN L. AND ERLA HENLY

H. H. Leid, Auct.

Howard C. Bare, Atty.

For Full Market Reports
Read Lancaster Farming

5500 HEAD — Four
WINCHESTER FEEDER CATTLE SALES

Farmers Livestock Exchange, Inc., Winchester, Virginia

STATE SPONSORED — GRADED —
UNIFORM LOTS — ALL BREEDS

Mark these dates on your calendar:

FALL YEARLING SALE —
Friday, September 18, 1970 — 7:30 P.M.
FEEDER CALF SALE & SHOW —
Friday, October 2, 1970 — 1 P.M.
(Show 10 A M) (Sale 1 P M)
2nd FALL YEARLING SALE —
Friday, October 16, 1970 — 7:30 P.M.
2nd FEEDER CALF SALE —
Friday, October 30, 1970 — 7:30 P.M.

Dehorned — Yearlings 500# up
Feeder Calves 300# - 600#
Bangs Vaccinated Heifers —
Eligible for interstate shipment
Guarantee "No Bred Heifers or Stags"
IN FEEDER CALVES ONLY.

I. Fred Stine, Advisor **P. T. McIntire, Sale Manager**
Write or Phone Area 703/662 2946

NORTHERN VIRGINIA LIVESTOCK, INC.
Box 440 — Winchester, Virginia 22601

6500 HEAD
IN FIVE FEEDER CALF SALES
LOCATED IN CENTRAL VIRGINIA
"Where Quality is Outstanding"

Angus-Hereford-Crosses Steers-Heifers
300-700 Pounds

ORANGE	1:00 P.M.	September 22	1200 Head
CHARLOTTESVILLE	1:00 P.M.	September 23	1400 Head
CULPEPER	1:00 P.M.	September 24	1200 Head
MARSHALL	7:00 P.M.	September 24	1500 Head
STAUNTON	1:00 P.M.	September 25	1200 Head

Health requirements and all qualifications conform to the high standards of the Virginia Beef Cattle Association.

Second Series of Sales — October 27 October 30, 1970
For further information Contact:
ROY HELTZEL,
COUNTY EXTENSION AGENT
Culpeper, Virginia—Telephone: Culpeper 703/825-2233

DAIRY COW SALE

at Black & White Holstein Farm, across from Comet Theatre, US 230 By Pass, Lancaster, Penna.

on

FRIDAY NIGHT, SEPT. 18th
at 7:30 o'clock Sharp

54 Canadian & Wisconsin Reg. & Grade Holsteins 54

This is a very choice selection of good young cows. They have lots of size, good type and udder development, many of them with good production records All just fresh or close up springing Production to 80 lbs daily

Credit terms can be arranged prior to sale

CHARLES C. MYERS,
Owner

Abe Diffenbach, Auct.
H. Kettering, Pedigrees

Your Place to buy quality Dairy Cows

PUBLIC SALE REGISTER

(Continued from Page 26)

SAT SEPT 26—12 30 Public Sale of valuable Real Estate and Personal Property located 1 mi east of Zeltenreich Church on road to Mt Tabor Church 2 acres of land, 2½ story frame dwelling Real estate to be offered at 2 P M Terms by John R Beiler

WED SEPT. 30—2 P M Public Sale of Real Estate located 1 mile southwest of Central Manor off Route 999 on Prospect Road. 10 miles southwest of Lancaster, 3 miles southwest of Washington Boro, Lancaster County, Manor Township, Penna Terms by Sue E Breneman Est Robert F and J Breneman, Exects Kreider and Diller, Auctioneers

FRI OCT 2—1 P M Feeder Calf Sale and Show to be held at the Farmers Livestock Exchange located 1½ miles west of Winchester, Va on U S Route 50

FRI OCT 2—1 P M Feeder Calf Sale and Show (Show 10 A M) at the Farmers Livestock Exchange Inc, Winchester, Virginia Sponsored by Northern Virginia Livestock, Inc, Winchester, Virginia

FRI OCT 16—10 A M Public Auction of New and Used Farm and Industrial Equipment located along Rt 181 Emigsville, Pa. Exit 10 or 11 off Interstate 83—20 miles south of Harrisburg, Pa Terms by York Co Farm and Industrial Equipment Co. Inc

FRI OCT 16—7 30 P M Fall Yearling Cattle Sale to be held at the Farmers Livestock Exchange, Inc located 1½ miles west of Winchester, Va on U S. Route 50

FRI OCT 16—7 30 P M 2nd Fall Yearling Sale at the Farmers Livestock Exchange Inc. Winchester, Virginia Sponsored by Northern Virginia Livestock, Inc

WED OCT 21—9 a m Another sale by request Martin's Sale Barn, Blue Ball, Pa Farm tractors, supplies, machinery, equipment, implements, hay, and straw We sell on commission. Terms by Paul Z Martin, Ph. 717-354-6671

FRI OCT 30—7 30 P M Feeder Calf Sale to be held at the Farmers Livestock Exchange located 1½ miles west of Winchester, Va on U S. Route 50

FRI OCT 30—7 30 P M 2nd Feeder Calf Sale at the Farmers Livestock Exchange, Inc, Winchester Virginia Sponsored by Northern Virginia Livestock, Inc

Public Auction
Of New And Used Farm And Industrial Equipment
FRIDAY, SEPT. 18, 1970
10 A.M.

Located — Route 181, Emigsville, Pa. — Exit 10 or 11 off Interstate 83 — 20 miles south of Harrisburg, Pa.

40 TRACTORS & CRAWLERS

6000 Ford, Farmall Cub and loader, 871 Ford, HD3 Allis Chalmers crawler & loader, D19 diesel, Farmall 460 diesel, New Massey Ferguson 35 gas, Case, International, John Deere, plus many more.

EQUIPMENT

Disk harrows, New Idea 310 & No. 7 corn pickers, International mounted 2MH, M.M., Woods, gravity bins, wagons, plows, harvesters, mowers, and all kinds of farming needs.

FARMERS & DEALERS: Bring your surplus equipment in to sell on commission. There is a good demand for good used equipment; junk will bring junk prices.

Next Sale: October 16, 1970 — Sale 3rd Friday each month

Terms: Cash or good check

York Co. Farm & Industrial Equip., Co., Inc.
Box 222, Emigsville, Pa.
Phone: 717:764-6412 or 717:764-5115

DANIEL S. ESH COMPLETE
DISPERSAL
THURSDAY, SEPTEMBER 17
(12:00) Noon
Guernsey Sale Pavilion, Lancaster, Pa.

The Guernsey sale pavilion is located 6 miles east of Lancaster, Pa. right on Rte. 30.

75 REGISTERED HOLSTEINS

(Certified Accredited, Vacc — Blood & T B tested within 30 days Eligible to ship anywhere Exam for Preg & Mastitis)

TOP PRODUCTION SELLING HERE!!

1 with 1009 lbs fat VG-88" dtr of 'Ivanhoe
3 with 889, 855, 816 fat
8 from 715 to 772-lbs fat
9 from 621 to 689 lbs fat
10 from 527 to 593 lbs fat

Daughters Of These Famous Sires Sell!!

'Ivanhoe" 3 — Kingpin" 5 — "49er" 5 — "Citation R" 2 — Ivington Pride Admiral 2 — "Marquis" — Dividend Performer — UNH Burke Graduate — Dividend Clipper — Glenvue Sky Chief and others

TOP CLASSIFICATION!!

1 'EX — 12 'VG" to 88 pts — 15 'GP" to 84 pts

30 HEAD SELL FROM CANADA!!

Mr Esh has purchased 30 head from Canada to augment his numbers from 45 to 75 8 are scored 'VG' in Canada All have real good records and by top Canadian Sires This is a special quality group Make sure you see them

TOP UNH BURKE GRADUATE SELLS!!

A real top that just scored "VG 88" in July on first classification She has 482 fat at 2 yrs and over 13 000-lbs milk A real sensation

MAKE YOUR PLANS NOW TO ATTEND AND BUY AT THIS TOP OPPORTUNITY DISPERSAL!!

Sale starts 12:00 Noon **Lunch Available** **Catalogs**

R. Austin Backus Inc.
Sale Mgrs. & Aucts.
Mexico, N.Y.

Penna. Hol. Assn.
839 Benner Pike
State College, Pa.

Daniel S. Esh
Owner,
Gordonville, Penna.

Call Us Now

To reach the Lancaster County farm community at the least possible cost, advertise in Lancaster Farming Call us at 394 3047 or 626 2191 from 8 a m to 5 p m Monday through Friday The 626-2191 (ask for Lancaster Farming) number enables Manheim, Ephrata and Akron patrons to avoid a toll call.

PUBLIC SALE
of Valuable Farm Implements-Antiques And Personal Property

On Saturday, Sept 19, 1970
at 10 A M. Sharp

at RD #1, Wrightsville, Pa. on the East Prospect Craley Road near East Prospect.

The undersigned having sold their farm will offer at public sale farm machinery some horse drawn also antiques & personal property For a more complete listing drop a card to Gilberts Auction Service RD #1 Wrightsville Pa Not responsible for accidents on day of sale Terms Cash or Certified check Refreshments available from Red Lion Grange No. 1781 Come early lots to sell

Ernest S. Leibhart
Margaret Viola Leibhart

SATISFIED CUSTOMERS ARE OUR BEST ASSETS

WHY?

Our satisfied customers have satisfied cows . . . and they keep their cows happy with a regular diet of Green Pastures Dairy Feed. The dairy farmers who feed Green Pastures have fewer problems, less cost, and more milk to prove their satisfaction claims.

YOU CAN INCREASE MILK PRODUCTION AND PROFIT WITH GREEN PASTURES DAIRY FEED

★ **PROTEIN QUALITY** — and an unsurpassed amino acid balance

★ **HIGH ENERGY VALUE** — total nutrient value very high

★ **MINERAL BALANCE** — complete and accurate

★ **VITAMIN SUPPLEMENTATION** — including the new recognized levels of added A+D

★ **LOWER** replacement costs

★ **BETTER** herd health and breeding regularity

YOU'LL HAVE MORE MILK - LESS COST FEWER PROBLEMS

MILLER & BUSHONG SERVICE HELP PROGRAM

MILLER & BUSHONG

GREEN PASTURES LIVE STOCK FEEDS

For Assistance in Planning, Programming, Management . . . make an appointment today with our Dairy Specialist, or call us direct Lancaster 392-2145. FINEST SERVICE ANYWHERE